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NEW YORK STATE
AGRICULTURAL EXPERIMENT STATION
GENEVA, NEW YORK

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PROCUREMENT SECTION
CURRENT SERIAL RECORDS

REGIONAL PLANT INTRODUCTION STATION

VEGETABLES AND ORNAMENTALS

DESCRIPTIVE NOTES

SEED AVAILABLE

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION
REGIONAL PLANT INTRODUCTION
GENEVA, NEW YORK 14456

SEED AVAILABLE AND DESCRIPTIVE NOTES

1970 Season

VEGETABLES and ORNAMENTALS

U.S. NORTHEASTERN REGIONAL PROJECT, NE-9
14 Agricultural Experiment Stations

Cooperating with

NEW CROPS RESEARCH BRANCH
AGRICULTURAL RESEARCH SERVICE
U. S. DEPARTMENT OF AGRICULTURE

Released January 4, 1971

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Coordinator, Regional Project, NE-9

William R. Sherring
Asst. to Coordinator

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Research Plant Pathologist

INTRODUCTION

Plant introductions herein listed are available from the Regional Plant Introduction Station, Geneva, New York. All were grown and increased during the past year. Notes were taken, as completely as possible, on horticultural characters and on disease and insect resistance. Ratings indicating resistance or tolerance do not imply that all plants in the row were uniform for this character. Photographs of many introductions may be borrowed from the Regional Station.

It is hoped that these notes may aid breeders in selecting plant materials for research projects.

Those receiving seeds may assist our program by reporting the merits and uses of plant introductions to the Regional Station.

Catalogs issued in 1954 through 1970 are on file with each Regional Representative and at each State University Library. Seed of all introductions previously listed are still available.

A similar catalog of forage legumes and grasses is sent in alternate years to all forage crop breeders.

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Released January 1971

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ALLIUM CEPA

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in bands in flats, 90 seeds per accession, 3/6/70. Set in field 4/27/70, 30 sets/accession. Spacing 4' x 3.5' + 4'. Fertilizer 640 lb. 10-20-20/A. Notes taken 8/14, 17, 18.

Col. 3	Uniformity	9=very uniform	5=medium	1=poor
Col. 4	Vigor	9=most	5=medium	1=poor
Col. 5	Plant height in centimeters			
Col. 6	Number of leaves per plant			
Col. 7	Amount of bloom	9=heavy	5=medium	1=least
Col. 8	Number of broken leaves			
Col. 9	Maturity	9=very early	5=medium	1=very late
Col. 10 & 11	Neck length x diameter in centimeters			
Col. 12 & 13	Bulb depth x diameter in centimeters			
Col. 14	Bulb Shape	g=globe	f=flat	o=oval
Col. 15	Bulb color	r=red	br=brown	y=yellow
Col. 16	Number of loose scales	w=white	5=medium	l=few
Col. 17	Root length in centimeters	9=many		
Col. 18	Root size	c=coarse	m=medium	f=fine
Col. 19	Keeping Quality	9=best	5=medium	1=poor

P.I.No.	Orig.	Unif.	Vig.	Ht.	Plt.	Lvs. / Amt. Blm.	No. Broken Lvs.	Neck				Bulb				Keeping Quality		
								Mat.	Lgth. x Dia.	Dia.	Dpth. x Dia.	Shp.	Color	No. Loose Scales	Root Lgth. Sz.			
Allium cepa																		
142790	Iran	7	6	60	7-8	6	5	7-8	7.5	2.0	8.5	9.1	gl	r	6	10.5	c	6
164349	India	6	4-6	44	7	1	7	4	8.8	1.9	8.0	7.0	gl	r	6	7.0	f-m	3
	Several small plants.																	
164807	India	6	6	45	9	1	16	3-4	7.0	1.5	6.0	7.2	gl	r&w	2-4	6.5	m-c	6
171480	Tur.	6	5	50	10	4	6	7	6.2	2.0	6.5	7.0	gl	br	6	6.5	m	4
	Three plants in row.																	
171481B	Tur.	7	7	50	12	4	5	6	8.7	2.0								
	Flat leaves.																	
174018	Tur.	6	5-6	50	8	5	10	8	5.0	1.8	6.0	7.5	gl	br & w	4	6.5	m	8
178823	Tur.	5	5	55	8	5-6	5	7	5.0	2.0	9.0	8.5	gl	r	6	7.5	c	8
	One head, 8 plants in row.																	
179165	Tur.	7	6	45	12	3	2	7	6.5	2.0	8.0	8.5	gl	br	4	6.5	f-m	4
	Three plants in row.																	
179627	Ind.	6	6	45	9	5	6	5	6.5	1.7	7.5	9.0	gl	r	7	9.5	c	6
	Three plants in row.																	
179841	Ind.	6	5	40	7	6	7	4	4.0	1.7	5.0	6.0	gl	br	5	6.5	f-m	8
205162	Tur.		4	50	9	5	1	8	2.2	1.8	9.0	9.0	gl	y	1	6.5	c	8
	One plant in row.																	
211902	Iran	5	6	45	14	2	8	5	6.2	3.5	6.5	6.5	gl	w	2	5.5	m-c	4
	Big necks, two small plants.																	
211903	Iran	6	6-7	55	12	3	12	5	10.5	3.0	6.4	8.0	fl ov	w	2	15.0	m	6
	Staked for field tour, large necks.																	
212075	Afgh.	6	7	60	14	5	10	5-6	5.0	2.2	5.2	9.0	gl	r&w	5	10.0	m-c	4
214119	Bol.	6	6	55	14	6	12	6-7	5.5	2.0	8.4	9.5	gl	r	5	8.5	m-c	3
	Most plants have heads.																	
214146	Ind.	7	6-7	60	16	5	4	5	7.2	2.5	8.0	10.5	gl	br&w	2	8.0	m-c	7
	Large bulbs.																	
218059	Pak.	6	5	50	8	4	2	4	3.5	2.0	7.0	8.5	gl	r	2	11.5	f-m	7
	Three plants in row.																	
220276	Afgh.	6	6	55	14	6	4	4-5	5.5	3.0	8.0	9.5	gl	r	6	9.5	m-c	4
	Four plants in row.																	
220763	Afgh.	7	7-8	60	10	6	5	3-4	3.0	2.0	6.5	8.5	gl	br&w	5	5.5	m-c	5
	Good vigor.																	
220501	Afgh.	7	6-7	50	9	5	10	6	5.0	2.2	10	11	gl	r&w	6	6.0	m	6

P.I.No.	Orig.	Unif.	Vig.	Ht.	Plt.	Lvs./ Amt.	Broken Lvs.	Mat.	Neck		Bulb				Keeping Quality			
									Lgth. x Dia.	Dia.	Dpth. x Dia.	Shp.	Color	No. Loose Root				
														Scales		Lgth. Sz.		
222228	Iran	5	4	50	8	6	2	3	5.0	1.5	8.5	9.5	gl	r	1	7.0	f-m	4
	Two plants in row.																	
222698	Iran	6	5-6	60	12	6	6	5	4.2	2.5	6.5	9.5	gl	br	6	5.5	m-c	4
	Several plants missing.																	
222764	Iran	5	5-6	50	7	6-7	5	5	3.0	1.8	8.5	8.5	gl	r&y	6	4.5	m-c	3
222765	Iran	5	6	50	12	6	5	6	6.5	2.1	9.0	10.0	gl	r	6	6.0	c	2
226447	Iran	5	5	50	8	4-5	6	6	9.5	2.8	10.5	11.5	gl	r	5	9.5	c	1
	Four plants in row, large necks, large bulbs.																	
227346	Iran	5	5	50	9	6	3	3	4.0	1.5	7.0	8.0	gl	br	6	8.0	f-m	4
	Three plants in row.																	
232069	S. Afr.	7	5-6	35	6	4	3	9	5.0	1.5	10	9.0	gl&ov	y	6	3.5	m-c	6
	'Hojem'.																	
233188	USSR	8	8	50	15	7	4	5	4.5	1.5	6.0	7.5	gl	y	5	9.0	f-m	9
	Good vigor.																	
233189	USSR	6	6	50	7	7	5	5-6	4.0	1.8	8.5	8.5	gl	y	4	8.0	f-m	9
233190	USSR	6	6-7	40	10	7	10	7	3.0	1.7	7.5	8.5	gl	br	6	6.5	m	9
234595	Austral.	5	4	40	4	5	2	8	4.5	1.5	7.0	7.5	gl	br	6	5.5	m-c	9
	Six plants in row.																	
236025	Egypt	5	3-5	40	5	4	3	8	6.5	1.3	8.0	8.5	gl	br&w	3-4	4.0	m-c	9
	Several small plants.																	
239633	Iran	7	6-7	45	7	3-4	10	5	7.0	1.4	7.0	6.5	gl	w	2-3	5.5	m	6
247067	It.	7	4	40	6	5	5	9	5.0	1.0	11	8.7	gl&ov	r	5	4.4	m	4
	'Italian Red'.																	
248753	India	3	3-5	35	8	3	3	4-5	4	1.3	7.5	6.5	ov	r&w	6	6.5	f-m	7
	Variable plant size.																	
248754	India	6	4-5	50	5	3	5	3	5.5	1.1	7.5	6.5	gl	r	5	8.6	m	8
249540	Grc.	7	7	60	8	6	13	5	8	1.8	9.9	9.0	ov	br&w	4	7.0	m-c	7
251041	Yugo.	7	5-6	50	9	4	7	8	4.0	1.3	8.0	8.0	gl	r&y	6	5.5	m-c	7
251509	Iran	4	4-6	45	8	6	2	6	4.5	2.4	7.0	7.0	gl	r	4	5.5	m-c	6
	Two plants in row.																	
255461	USSR	8	7-8	55	10	5	6	5	5.0	3.0	9.0	8.5	gl	y	5	5.6	c	7-8
255557	Yugo.	7	6	40	6	3	4	8	5.0	1.5	8.0	8.5	gl	r	6	8.5	c	6
256048	Afgh.	7	7	50	7	4	10	4	6.0	2.0	8.5	10.4	fl	gl	7	6.4	c	8
256049	Afgh.	5	5-6	50	10	4	5	4	6.0	2.5	8.5	9.6	gl	r	6	6.6	c	7
258957	Chile	4	5-6	50	5	7	5	7	6.0	2.0	8.7	8.0	gl	y	4	4.5	c	9
	Two heads.																	
																		3

P.I.No.	Orig.	Unif.	Vig.	Ht.	Plt.	Lvs./ Blm.	Amt. Broken	No.	Bulb											
									Neck			Bulb				No. Loose			Root	Keeping
									Lvs.	Mat.	Lgth. x Dia.	Dpth. x Dia.	Shp.	Color	Scales	Lgth. Sz.	Quality			
260447	Austral.	6	4-5	45	5	5	1	8	3.0	1.0	7.7	9.5	gl	br	4-5	6.7	c	9		
260793	Ger.	6	5	40	8	4	4	7	2.0	1.3	4.5	5.0	gl	y	5-6	5.3	m	9		
261766	Fr.	8	8	55	6	4	4	8	4.0	2.0	7.6	7.5	gl	r	5	7.4	c	6		
	'Rouge Palede Huy'. Very large leaves.																			
262918	USSR	5	6-7	60	9	4	8	4	5.0	2.0	9.1	8.6	gl	r	7	6.5	c	7		
	'Dunganski'. One head, large bulbs.																			
262921	USSR	7	7	55	8	6	2	8	4.5	2.0	10.5	9.0	gl	y	5	4.0	m-c	9		
	'Vostorkny'. One head.																			
262922	USSR	5	6-7	60	7	5	3	7	6.0	2.0	7.6	8.4	gl	y	5	5.3	c	9		
	'Zolotai-Shor'.																			
343048	Spain	7	5	45	6	2	3	8	3.5	1.4	6.5	9.4	gl	w&y	4	4.5	c	5		
	'Blanca Temprande la Reina'.																			
343049	Spain	7	6	60	6	3	2	8	5.0	1.3	7.6	10.4	gl	w	6	6.5	m-c	6		
	'Cebolla Blanca Temprana'.																			
344247	Tur.	7	7	55	5	5	1	6-7	4.0	1.5	7.4	8.4	gl	br	4-5	5.2	c	6		
	Eleven plants in row.																			
344248	Tur.	5	4-6	35	8	4	3	7-8	3.5	1.5	7.1	7.5	gl	r	5	6.5	c	9		
	Variable plant size.																			
344249	Tur.	7	5-6	50	9	7	10	5	3.7	1.5	8.0	8.5	gl	w	4	6.0	c	8		
	One head.																			
344250	Tur.	5	5-6	50	6	5	9	6	4.0	1.5	5.7	8.1	gl	y	4	9.7	c	8		
	Variable plant size.																			
344251	Tur.	6	6-7	50	8	6	6	4	7.0	1.6	8.2	7.7	gl	r&br	5-6	5.6	m-c	8		
344252	Tur.	7	7	45	6	7	7	5	4.2	1.5	7.2	7.6	gl	br	7	7.5	m-c	8		
	Six plants.																			
344253	Tur.	5	5-7	50	7	5	6	5-6	6.0	1.8	7.6	8.5	ov&gl	w	3-4	5.4	m-c	8		
	Variable plant size.																			
344254	Tur.	4	4-5	40	5	4	4	5	3.0	1.2	8.7	5.1	ov	r&br	5	2.5	m	7		
344255	Tur.	7	6	50	6	4	3	7-8	4.0	1.3	5.2	7.5	gl	w	2	6.6	c	7		
344256	Tur.	7	7-8	65	7	6-7	6	6	3.5	1.8	8.7	10.0	gl	r	7	6.0	c	6		
344257	Tur.	6	6	65	6	6	2	7	3.0	2.0	5.4	7.2	gl	y	4	5.6	m-c	8		
344258	Tur.	7	6-7	50	7	6	4	6	5.5	1.1	7.2	8.5	gl	r&br	6	7.8	m-c	8		
344259	Tur.	7	7-8	65	8	4-5	8	6	4.0	1.8	6.4	8.8	gl	br	5		f-m	8		
	Staked for field day.																			
344260	Tur.	5	5-7	45	6	6	5	7	3.5	1.5	7.5	8.1	gl	br	5	9.0	m	8		
	Variable plant size.																			

P.I.No.	Orig.	Unif.	Vig.	Ht.	No.			Lvs.	Mat.	Neck		Dpth.	x Dia.	Shp.	Color	No. Loose Root		Keeping		
					Lvs./	Amt.	Broken			Lgth.	x Dia.					Scales	Lgth.		Sz.	
																				Plt.
344261	Tur.	8	6-7	50	6	5	4	7	7	5.0	1.5	7.3	7.0	gl	br	2-4	10.4	m	8	
344384	Iran	6	6	50	7	5	2	6	6	6.0	1.3	5.2	5.7	ov	br	4	6.1	m-c	7	
	Two plants.																			
344385	Iran	6	6-7	50	6	5-6	7	6-7	6-7	5.5	1.5	6.5	7.9	gl	r	6	10.5	c	4	
344386	Iran	6	6-7	45	7	5	6	6	6	4.5	2.0	7.5	7.0	gl&ov	w	3	5.8	f-m	6-7	
344387	Iran	4	3-6	50	7	6	3	7	7	4.0	1.8	7.0	7.7	gl	r&w	3-5	7.1	f-m	4	
	Variable plant size, several small bulbs.																			
344388	Iran	4	3-6	45	5	5	3	7-8	7-8	4.0	1.5	6.9	7.2	gl	r	5	6.3	m-c	7	
	Variable plant size.																			
344389	Iran	7	8	65	10	1	4	4-5	4-5	5.0	3.0	8.5	11.1	fl	gl	w	3	10.5	c	7
	Staked for field day, fairly vigorous, long bulbs.																			
344390	Iran	7	7	50	6	6	3	7-8	7-8	6.0	1.3	6.1	6.7	gl	r	6	5.0	m	5	
344391	Iran	5	1-5	30	5	3	3	5-6	5-6	2.8	1.5	5.1	7.7	fl	gl	r	5-6	7.0	m	6
	Very small plants.																			
344392	Iran	4	1-4	30	4	3	2	5	5	3.0	1.5	5.5	6.9	gl	r	6	5.5	--m	7	
	Some small plants, some plants appear to be dying, not too vigorous.																			
G-19685	Col.	8	8-9	70	11	4	5	3	3	4.0	2.5									
	Queen #5562. Very vigorous, staked for field tour.																			
G-19686	Col.	6	5-6	55	5	6	0	9	9	4.0	1.7	8.4	6.2	ov	w	2	4.5	f-m	8	
	Bunching Globe #5571.																			
G-19687	Col.	7	6	50	5	5	0	9	9	5.8	1.4	9.1	7.2	ov	y	5	8.2	f-m	6	
	'Stockton' Globe #36 #5585																			
<u>Allium oschaninii</u>																				
345539	USSR	6	6	40	12	6	0	3-4	3-4	3.0	2.5									
	Two plants, variable leaf size.																			
<u>Allium thunbergii</u>																				
318515	Md.	7	4	25	11	1	0	4	4											
	Two plants, 3 heads, very small plants and leaves, no necks 8/18/70.																			

P.I.No.	Orig.	Unif.	Vig.	Ht.	Plt.	Lvs. / Amt. Broken	Lvs.	Neck				Bulb				Root	Keeping	
								Mat.	Lgth. x Dia.	Dpth. x Dia.	Shp.	Color	No. Loose Scales	Lgth. Sz.				
Standard Cultivars Included for Comparison																		
G-19676	N.Y.	8	7-8	55	10	5-6	6	9	3.0	1.5	10.0	8.5	gl	y	4	5.5	m	9
	'Downing Yellow Globe'.																	
G-19678	N.Y.	5	6	40	9	6	7	8	3.5	2.0	9.5	8.5	ov	r	5	8.5	m-c	8
	'Southport Red Globe'.																	
	One head.																	
G-19683	N.Y.	8	7-8	65	10	4	5	2-3	4.0	1.9	5.2	3.0	obl	w	20	20.0	m-c	
	'Japanese Bunching'.																	
G-19677	N.Y.	7	7	55	6	5	5	7-8	4.0	1.5	8.1	9.2	gl	y	4-5	5.6	c	9
	'Ebenezer'.																	
G-19680	N.Y.	8	7	60	5	5-6	4	8	3.5	1.5	5.8	8.2	fl gl	w	2	8.6	f-m	8
	'White Port' or 'Silverskin'.																	

ALLIUM CEPA

Cold Germinating

1970 Descriptions and Evaluations

Onions put on to germinate at 6° C. (42.8° F.) for 6 weeks, 33 seeds of each accession, the strongest sprouts were then put in the greenhouse until bulb size. The bulbs were put in the field 4/27, 6/1, and 6/30/70. Spacing 4' x 3.5' + 4', Fertilizer 640 lb. 10-20-20/A. Notes taken 9/3/70.

Col. 3	Uniformity	9=very uniform	5=medium	1=poor
Col. 4	Vigor	9=most	5=medium	1=poor
Col. 5	Plant height in centimeters			
Col. 6	Number of leaves per plant			
Col. 7	Amount of bloom	9=heavy	5=medium	1=least
Col. 8	Number of broken leaves			
Col. 9	Maturity	9=very early	5=medium	1=very late
Col. 10 & 11	Neck length x diameter in centimeters			
Col. 12 & 13	Bulb depth x diameter in centimeters			
Col. 14	Bulb shape	g=globe	f=flat	o=oval
Col. 15	Bulb color	y=yellow	br=brown	w=white
Col. 16	Number of loose scales	9=many	5=medium	1=few
Col. 17	Root length in centimeters			
Col. 18	Root size	c=coarse	m=medium	f=fine
Col. 19	Keeping Quality	9=best	5=medium	1=poor

P.I.No.	Orig.	Unif.	Vig.	Ht.	Plt.	Lvs./ Amt. Broken	No.	Neck			Bulb					Root Lgth.	Sz.	Keeping Quality			
								Lvs.	Mat.	Lgth.	x	Dia.	Dpth.	x	Dia.				Shp.	Color	No. Loose Scales
179165	Tur.	-	3	24	5		4	1	4	2	5.5	7.3	gl	br	5	5.5	m	0			
	One plant.																				
181929	Syria	7	6	35	6	4	8	7	4	1.0	7.2	11	gl	br	7	9.5	m-c	6			
	Seven plants, multiplier.																				
182135	Tur.	6	5	40	5	6	6	4	4	1.1	7.7	10.8	gl	r	6	9.0	m-c	6			
	Four plants, multiplier.																				
220763	Tur.	5	5	50	5-6	3	5	5	5	1.3	6.5	9.8	ov	r	6	11.5	m	1			
	Four plants, poor, multiplier.																				
221911	Afgh.	5	5	50	4	4	3	4	7	4.5	6.5	9.4	ov	br	6	9.0	c	7			
	Two plants, multiplier.																				
222765	Iran	0	4	50	5	5	3	6	6	1.6	7.8	9.0	ov	r	5	7.7	m	3			
	One plant, multiplier.																				
223498	Afgh.	0	8	38	4	4	3	6	5	.7	5.5	8.6	ov	r	6	9.7	m	8			
	One plant, multiplier.																				
227346	Ir.	5	5	48	5	4	7	4	7.5	1.6	7.5	10.2	ov	r	5	5.3	m	1			
	Two plants, multiplier.																				
227438	Ir.	5	5	35	5-6	2	8	5	10	1.0	7.5	9.5	ov	r	6	8.5	m	1			
	Three plants, one dead plant, multiplier.																				
233188	USSR	6	6	45	6	6	8	8	5.0	1.3	5.3	5.5	ov	y	7	8.8	m	8			
	Five plants.																				
233189	USSR	6	5	40	4	3	3	8	6.0	1.5	6.5	8.5	gl	br	4	7.2	m	8			
	Three plants, multiplier.																				
239633	Ir.	5	5	50	5	2	8	6	10	2.0	7.0	10	ov	w	5	7.0	m-c	6			
	Five plants, one head, multiplier.																				
249538	Grc.	6	5	50	5	4	4	3	7.0	1.5	9.5	7.5	ov	r	4	9.0	m	7			
	Three plants, multiplier.																				
249539	Grc.	6	5-6	50	5	4	10	7	6.0	1.4	6.3	9.0	gl	r&w	5	8.0	m-c	5			
	Seven plants.																				
249540	Grc.	5	5	40	4	3	4	3	7.5	2.0	9.3	7.5	ov	br	5	7.0	f-m	2			
	Two plants.																				
249898	Port.	6	5-6	50	4	5	4	5	4.5	2.0	12.3	10	gl	y	5	7.0	m-c	9			
	Two plants, very large bulbs.																				
251020	Afgh.	5	6	50	6	5	8	5	4.5	2.1	6.0	10.1	fl	gl	r&w	5	8.5	c	4		
	Six plants, multiplier.																				

[illegible]

P.I.No.	Orig.	Unif.	Vig.	Ht.	Lvs./ Plt.	Amt. Blm.	Broken Lvs.	Mat.	Neck		Bulb				No. Loose Scales	Root Lgth. Sz.	Keeping Quality	
									Lgth. x Dia.	Dpth. x Dia.	Shp.	Color						
264327	Sp.	6	6	50	5	4-5	2	7	7.0	1.1	9.0	7.0	gl&ov	y	5	8.5	f-m	9
264328	3 plants, 1 very large bulb.																	
	Sp.	5	5	34	3-5	4	3	8	5.0	1.5	6.2	9.7	gl	r	7	9.0	m	7
264329	10 plants, several small plants.																	
	Sp.	5	4-5	32	4	3	3	6	6.5	1.2	6.5	6.5	gl	r&y	4	6.0	f-m	1
264623	3 plants.																	
	Ger.	6	5	50	5	5	6	5	6.2	1.5	6.7	8.7	gl	br	5	7.7	m-c	8
264627	7 plants.																	
	Ger.	5	4-5	40	4	4	3	6	5.5	1.8	5.5	6.0	gl	r	5	8.0	m	8
264647	3 plants.																	
	Ger.	5	5	34	4-5	6	6	7	3.2	2.0	5.4	7.6	gl	br	6-7	6.0	m	9
264648	5 plants, 1 dead.																	
	Ger.	0	4	40	3	4	0	7	6.2	2.2	6.0	9.0	gl	y	4	7.0	m	8
264777	1 plant.																	
	It.	5	5	46	5	5	3	7	6.0	1.2	8.0	9.5	gl	br	5	9.5	m	9
264778	3 plants.																	
	It.	5	5	40	5	4	2	6-7	6.3	1.1	6.3	8.5	gl	r&br	5	4.5	m	8
268355	3 plants.																	
	Afgh.	5	5-6	52	5	5	4	4	9.2	2.0	5.6	8.5	gl	r&w	2	6.0	m-c	2
269306	3 plants.																	
	Swe.	6	5	45	5	3	4	8	3.8	1.0	7.0	8.5	gl	y	5	6.5	m-c	8
269415	7 plants.																	
	W.Pak.	0	4	40	3	4	1	6	5.2	.8	5.6	6.7	gl	br	5	7.5	f-m	1
269417	2 bulbs.																	
	W. Pak.	6	5-6	44	5	2	4	6	6.0	1.5	6.4	5.5	ov	br	5-6	9.3	m	5
269418	5 plants, multiplier.																	
	W. Pak.	6	6-7	48	6	2	7	5	5.5	1.6	7.0	9.8	ov	r	5	9.0	m	6
269419	8 plants, multiplier.																	
	W. Pak.	5	5-6	35	5-6	2	5	5	8.4	1.5	7.3	8.0	ov	br	5	8.0	f-m	5
269420	3 plants, multiplier.																	
	W. Pak.	6	5	42	3-5	2	6	6	6.2	1.5	6.5	8.8	ov	r	7	8.0	f-m	7
269422	8 plants, multiplier.																	
	W. Pak.	4	3	26	2	3	1	6	3.5	.7	5.0	6.5	gl	br	4	7.2	m	7
269423	3 plants, very poor.																	
	W. Pak.	6	6-7	40	6	2	11	5	10.2	1.1	7.2	7.2	gl	r	6	9.2	f-m	4
14 plants, multiplier.																		

P.I.No.	Orig.	Unif.	Vig.	Ht.	Lvs./ Amt. Broken		Mat.	Neck		Bulb				Root	Keeping			
					Plt.	Blm.		Lvs.	Lgth. x Dia.	Dpth. x Dia.	Shp.	Color	No. Loose Scales			Lgth. Sz. Quality		
280554	USSR	5	4-5	70	2-5	2	3	4	6.8	3.3	6.4	8.0	gl	w	6	10.5	m	4
285541	3 plants, fairly wide leaves; large neck.																	
	Pol.	0	4	38	3	4	1	6	5.8	1.3	6.4	6.2	ov	y	3	7.5	m	8
285543	1 plant.																	
	Pol.	5	4-5	54	5	5-6	4	7	6.0	2.2	7.2	7.1	gl	br	6	8.0	m	8
285544	5 plants.																	
	Pol.	0	5	40	4	2	0	6	3.8	1.5	5.7	7.5	gl	br	4	6.5	m	
286612	1 plant.																	
	S. Afr.	5	5	42	5	5	1	4	3.5	1.2	5.9	7.2	gl	br	6	8.0	m	8
288072	3 plants.																	
	Meth.	4	3	44	2-5	4	2	5	3.0	1.2	6.5	7.8	gl	w	3	8.6	f-m	1
288074	3 plants, 2 very poor.																	
	Meth.	4	4-5	45	3	4	0	4	6.1	1.5	7.3	6.2		br	4	7.0	m	8
288075	4 plants.																	
	Meth.	5	2-5	41	2-5	5	3	6	5.8	2.0	5.2	6.1	gl	br	6	8.0	m	8
288076	13 plants, several very poor plants.																	
	Meth.	5	4-5	46	4-5	5	3	5	4.5	1.5	7.0	5.6	ov	y	5	5.4	f-m	8
288078	Six plants.																	
	Meth.	4	2-4	40	2-4	5	2	6	4.1	1.3	5.8	7.0	gl	y	4	5.8	m	9
288079	5 plants, 3 poor.																	
	Meth.	4	2-3	28	3	2	2	5	3.3	.8	4.5	6.1	fl gl	w	3	5.5	f-m	4
288270	3 plants, very poor.																	
	India	5	4	41	4	4	2	4	7.5	1.0	5.5	6.0	ov	w	4	6.5	m	6
288271	3 plants, 1 very poor.																	
	India	2	7.0	4			2	1	2.5	0.4	2.0	2.2	gl	q	1	4.5	f	8
288274	2 small bulbs.																	
	India	2	12.5	3			2	1	1.5	0.6	2.5	1.7	ov	br	1	6.5	f	1
288692	8 small bulbs.																	
	Yugo.	5	4	38	4	5	2	4	2.8	1.0	3.8	4.7	gl	y	2	5.5	f	8
288907	3 plants, 1 very poor.																	
	Hung.	6	5	42	4	5	2	3	4.5	1.0	9.0	3.1	ov	br&w	3	9.3	m	5
292163	5 plants, very fine leaves, slender bulbs.																	
	Iran	6	5	36	3-5	5	3	3	4.2	1.3	3.7	5.3	fl gl w&y		3	10.0	f-m	8
	4 plants.																	

BRASSICA OLERACEA V. BOTRYTIS
(Cauliflower)

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in greenhouse 4/15&16/70, 96 seeds per accession. Pricked off 4/24/70, set in field 5/28/70, 16 plants per accession. Spacing 4' x 1' + 4'. Two replications. Fertilizer 640 lb. 10-20-20/A. Notes taken 9/1/70.

Col. 3	Uniformity	9=very	5=medium	1=least
Col. 4	Habit	9=very erect	5=medium	1=prostrate
Col. 5	Vigor	9=most	5=medium	1=least
Col. 6	Plant height in centimeters			
Col. 7	Plant width in centimeters			
Col. 8	Leaf height in centimeters			
Col. 9	Leaf width in centimeters			
Col. 10	Leaf color	1=light green	m=medium green	d=dark green
Col. 11	Amount of bloom	9=much	5=medium	1=little
Col. 12	Maturity	9=earliest	5=medium	1=very late
Col. 13	Number of heads			
Col. 14	Curd depth in centimeters			
Col. 15	Curd diameter in centimeters			
Col. 16	Curd compactness	9=very	5=medium	1=loose
Col. 17	Curd color	cr=cream	w=white	y=yellow
Col. 18	Date edible			
Col. 19	Number of plants bolting			
Col. 20	Cabbage worm injury	9=much	5=moderate	1=slight
Col. 21	Flea beetle	9=much	5=moderate	1=slight

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaves		Amt.	No.		Curd		Date Edible	No. Bolt	Worm Inj.	Flee Beetle
					Ht.xWth.	Lgth.xWth.	Col.	Blm.		Mat.	Hds.	Depth.xDiam.	Comp.				
343474	USSR	8	3-8	8	100	105	85	31	1	4-6	1					5	0-3
		'Early White'. No heads 9/1/70.															
343475	USSR	5	3-6	5	45	50	60	5	1	3	6	1	18	26	7	cr	7-26
		'Moscow Preserving'. One head.															
343476	USSR	4	3-6	2-6	65	100	60	18	m	5	5	4	20	8	7	cr	8-4
		'Snezinka'. Three very small plants; some purple in the heads.															
343477	USSR	7	4	6	40	90	55	24	m	5	4	7	16	25	8	y	8-7
		'Otechestvennaya'. Yellow turning to purple.															
343478	USSR	7	5	7	55	85	54	24	m	5	4	8	12	22	7-8	cr	8-8
		'Urozhainaya'. Purple heads.															
343479	USSR	7	5-7	8	65	80	60	20	m-d	2-6	1	1	12	20	6	cr	0
		'Cambridge Dwarf April'. One plant has head; purple in the head; some bolting in the head.															
343480	USSR	8	7-8	8	70	100	60	30	m	6	1					2-5	0-1
		'Cambridge Hardy Late'. No heads; very erect plants.															
343481	USSR	8	6-7	8	70	100	66	30	m	3-5	2					4	2-3
		'Malmaison'. Heads just beginning to form - very small 9/1/70.															
343482	USSR	5	4-5	3-5	40	55	17	8	1	2	9					1-2	0-1
		'Early Patna'. All bolted, gone to seed, many of them 9/1/70; no curds formed.															
343483	USSR	8	5	7	50	85	43	4	d	4-6	6	2	15	25	5	cr	12
		'Mozakiwase'. Purple in heads; two heads.															
344268	Tur.	8	5-7	8	85	105	72	26	1-m	5-7	1					3-6	0-2
		'Karnabahr'. Very vigorous; no heads 9/1/70; fairly erect plants.															
344269	Tur.	7	6-7	7	80	110	75	28		5-6	0					2-5	0
		'Karnabahr Son Cengelkoy'. No heads 9/1/70.															
344270	Tur.	7	7	8	80	100	70	23		6	1	0				1-2	0
		'Karnabahr Orta Kislik'. Quite erect; no heads 9/1/70.															
344271	Tur.	7	6-7	6-7	68	110	70	31	1-m	5	3	2	8	18	4	cr	8-1
		'Erkenci'. Heads very small; some curds starting to bolt.															
344272	Tur.	6-6	6-7	7	80	100	60	20	1-m	3-5	5	6	18	15	4	y	5
		'Orta-209'. Small heads.															
344273	Tur.	8	7	8	100	110	63	23	m	5	1	0				1-3	0
		'Gec 337'. Very erect; fairly vigorous.															
345541	USSR	8	7	7-8	70	110	63		m	6	1	0				1-4	0
		'Adlerskaja Veseniaja'. Fairly vigorous.															

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaves	Amt.	No.	Curd		Date	No.	Worm	Flee	
					Ht.xWth.	Lgth.xWth.				Col.	Depth.Diam.					Comp. Col.
445542	USSR	7	6-7	7-8	70	100	70	23	m	5-6	0				1-4	0
	'Adlerskaja Zimniaja 679'. Very vigorous.															

Standard Cultivars Included for Comparison

19718	N.Y.	6	4	6	45	100	44	20	m	5	4	6	15	4	7	cr	8-8	0	3-5	0-2
	'Snowball Imperial'.																			
19719	N.Y.	6	3-6	5-7	70	95	60	22	m	5	4	12	14	20	7	cr	8-7	0	2-6	0-2
	'Snowball Y'. (No. 25).																			
19717	N.Y.	7	5-6	7-8	80	100	70	20	m-d	6-7	9	0					7-28	15	2-4	0
	'Early Purple Head'. All bolted; setting seed; no curds 9/1/70.																			

BRASSICA OLERACEA var. CAPITATA
(Cabbage)

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in greenhouse 4/15 & 16/70, 96 seeds per accession. Pricked off 4/24; set in field 5/28, 16 plants per accession. Spacing 4' x 1' + 4'. Two replications. Fertilizer 640 lb. 10-20-20/A. Notes taken 9/1/70.

Col. 3	Uniformity	9=very	5=medium	1=least
Col. 4	Vigor	9=most	5=medium	1=least
Col. 5	Plant height in centimeters			
Col. 6	Plant width in centimeters			
Col. 7	Number of leaves	9=many	5=medium	1=few
Col. 8	Size of leaves	m=medium	s=small	1=large
Col. 9	Color of leaves	d=dark green r=red	m=medium green b gn=blue green	1=light green
Col. 10	Number of wrapper leaves			
Col. 11	Amount of bloom	9=much	5=medium	1=little bloom
Col. 12	Maturity	9=earliest	5=medium	1=late
Col. 13	Days to edible stage			
Col. 14	Head depth in centimeters			
Col. 15	Head diameter in centimeters			
Col. 16	Head shape	rd=round		
Col. 17	Head firmness	9=very	5=medium	1=loose
Col. 18	Head color	1=light green	m=medium green	rd=red b gn=blue green
Col. 19	Number of plants bursting			
Col. 20	Number of plants bolting			
Col. 21	Cabbage worm injury	9=much	5=medium	1=slight
Col. 22	Cabbage flea beetle	9=much	5=medium	1=slight

[illegible]

P.I.No.	Orig.	Unif.	Plant		No1	Days to Edible	Head				No.		Cab.	Cab.							
			Vig.	Ht. x Wth.			Leaf		Dpth.	Diam.	Shp.	Firm.			Col.	Bur.	Bolt				
							No.	Sz.										Col.	Worm		
343635	USSR	7	7	35	60	5	m-lg	rd	2-3	7	9	112	22	17	rd	8	rd	0	0	0-2	0-2
	'Slusia'																				
343636	USSR	6	7	38	75	6	lg	rd	2-3	8	4	127	22	18	rd	8	rd	0	0	1-3	0-2
	'Meteor Early'																				
343637	USSR	7	8	53	85	7	lg	rd	3-4	7-8	3	132	15	15	rd	8	rd	0	0	0-1	0
	'Langendijker'									Possible resistance to cabbage worm.											
343638	USSR	7	7-8	38	73	5	lg	rd	2	8	2	135	18	16	rd	8	rd	2	0	1-2	0-1
	'Langendijker'																				
343639	USSR	6	7	38	60	5-7	s-m	d	4-5	4	8	113	21	19	rd	5	1-m	1	6	4-8	6
	'Kitzinger'									Savoyed. 40% row bolting 9/10/70.											

Standard Cultivars Included for Comparison

G-19107	N.Y.	6	6-7	40	80	5 m-lg	1-m	3-4	7	1	139	14	20	rd	8	1-m	0	0	1-2	1-3
	'Danish Ballhead'																			
G-19720	N.Y.	8	7	30	65	4 m	d	2	4	9	108	22	20	rd	7	1	15	0	1-3	1-4
	'Emerald Cross'																			
G-18539	N.Y.	7	7-8	40	75	6 l	d	3	6	8	113	24	26	rd	7	1	6	0	1-4	0-3
	'Glory 61'																			

CUCUMIS

(greennouse)

Planted 9/25/69, notes taken 1/21/70.

1970 Descriptions and Evaluations

Col. 3	Vigor	9=most	5=medium	1=poor
Col. 4	Vine height in centimeters			
Col. 5	Length of leaf in centimeters			
Col. 6	Width of leaf in centimeters			
Col. 7	Days to bloom	9=very early	5=medium	1=very late
Col. 8	Maturity	9=many	5=medium	1=few
Col. 9	Set	s=slicer	p=pickler	
Col. 10	Type of Fruit			
Col. 11	Length of fruit in centimeters			
Col. 12	Width of fruit in centimeters	m=many		
Col. 13	Wart Frequency	l=large	f=few	m=medium
Col. 14	Wart Size	f=few	s=small	
Col. 15	Spine Frequency	b=black	m=many	
Col. 16	Spine Color	9=much	w=white	
Col. 17	Stippling	9=severe	5=medium	1=slight
Col. 18	Mosaic	9=severe	5=moderate	0=none
Col. 19	Powdery Mildew	9=severe	5=moderate	0=none

P.I. No.	Orig.	Vig.	Ht.	Lgth.	Wth.	Bln.	Mat.	Set	Pick.	Lgth. x Wth.	Wart		Spines		Mos.	Pow.	Mildew	p.	
											Freq.	Sz.	Freq.	Color					
279463	Jap.	6	240	18	21	71	7	3	p	29	5.2	m	1	m	b	2	0	0	24
279464	Jap.	9	160	17	19	61	9	9	p	36	3.5	f	s	f	b	1	0	0	
279465	Jap.	3	80	19	23	69	8	2	s	33	4.0	m	1	m	w	3	0	0	
Dwarf, determinate vine.																			
279466	Jap.	9	230	21	22	96	1	3	p	23	3.0	f		f	b	3	0	0	
279468	Jap.	8	160	17	19	80	4	6	p	26	5.0	m	m	m	b-w	8	0	0	
279469	Jap.	5	106	15	19	68	7	4	p	22	4.0	m	m	m	b	8	0	0	
285604	Pol.	4	90	16	17	76	5	1	s	14	5.5	m	s	m		9	0	0	
Pleitropic gene.																			
G-18172	N.Y.	2	115	15	17	85	3	1	p	14	6	f	s	f	b	1	0	0	
Pleitropic gene with black spines.																			

CUCUMIS

Cucumbers grown by Vegetable Crops Department, N.Y. State Agricultural Experiment Station, Geneva, N.Y., at the Vegetable Research Farm. Notes taken by Plant Introduction 8/25-27/70.

1970 Descriptions and Evaluations

Col. 3.	Uniformity	9=very	5=medium	1=least
Col. 4.	Vigor	9=most	5=medium	1=poor
Col. 5.	Vine length in centimeters			
Col. 6.	Leaf height in centimeters			
Col. 7.	Leafiness	9=very	5=medium	1=poor
Col. 8.	Leaf length in centimeters			
Col. 9.	Leaf width in centimeters			
Col. 10.	Maturity	9=very early	5=medium	1=very late
Col. 11.	Set	9=many	5=medium	1=few
Col. 12.	Fruit length in centimeters			
Col. 13.	Fruit diameter in centimeters			
Col. 14.	Fruit shape	s=straight	c=curved	
Col. 15.	Fruit color	gn=green	o=orange	y=yellow
Col. 16.	Slicer or pickler	s=slicer	p=pickler	
Col. 17.	Spine Color	w=white	b=black	
Col. 18.	Stippling	9=much	m=medium	s=slight
Col. 19.	Mosaic	9=severe	5=moderate	0=none
Col. 20.	Powdery mildew	9=severe	5=moderate	0=none
Col. 21.	Angular leaf spot	9=severe	5=moderate	0=none
Col. 22.	Downey mildew	9=severe	5=moderate	0=none

P.I.No.	Orig.	Uni.	Vig.	Vine Lgth.	Leaf.	Leaf Lgth.x Wth.	Mat.	Set	Fruit Lgth. x Diam.	Shp.	Col.	Pick.	Spine Col.	Stip.	Mos.	PM	Ang. Leaf Spot
173892	Ind.	4-5	4	150	3-4	13	13	1-2	2	15	5.5	s	o	p	8-9	4	0
174164	Tur.	6-7	7	160	9	18	18	4	8-9	17	5.7	s	o	p	8	0	3
Good resistance to mosaic; excellent set & excellent crop.																	
176166	Tur.	6	3	100	3-4	14	12	4	3	20	4.6	s	o	s&p	3-4	3-4	1-2
176167A	Tur.	3	3	90	3	15	15	4	3	16	5.7	s	o	p	1	3-4	2
174170	Tur.	6-7	4-5	90	4	16	17	3	4-5	17	6	s	o	p	5	0	1
Possible tolerance to mosaic.																	
174172	Tur.	3	4	140	3-5	19	18	5	6	21	5.2	s	o	s&p	0	3	1
174173	Tur.	6	3	90	2-3	13	13	5	5	10	5.8	s	o	p	0	3	1
174177	Tur.	5-6	100		6-7	20	19	4	3-4	23	5.7	s	o	s	8	0	2
One plant very large fruit, possible mosaic resistance.																	
175111A	Ind.	9	9+	140	9+	17	16	2-3	1-2	19	5	c		s	2	0	0
Possible disease resistance.																	
175120	Ind.	6	1	90	2	12	13	6	5	14	6	s	o	p	5	6	0
All plants defoliated.																	
175121	Tur.	5	4	125	3-4	18	17	5	3	18	5.2	s	o	p	6	6	0
175680	Tur.	2	75		2	13	13	1	0						8	0	0
Stunted by mosaic.																	
175681	Tur.	6-7	6	140	5	18	17	3	6	23	5.5	s	o	s	7	4-5	1-2
175686	Tur.	5	4	120	4	21	20	3	5	17	5.5	s	o	p	2	2	3
175688	Tur.	5	6	110	4	17	17	1	4	17	4.0	c	o	s	0	0	2
175689	Tur.	4	8	125	7	18	17	6	5	20	4.7	s	o	s	0	1	3-4
Possible mosaic tolerance.																	
175691	Tur.	4	3	75	2-3	13	13	4	5	16	5.3	s	o	p	6-7	2-3	1-2
175692	Tur.	5	7	140	6	22	22	3	4	20	4.5	c	o	s	1	0	4
Possible mosaic tolerance.																	
175694	Tur.	4	3	65	3	15	14	4	6	14	5.3	s	o	p	0	2	0
Possible tolerance to powdery mildew.																	
175695	Tur.	5	7	175	6-7	18	18	3	7-8	22	6.2	s	o	s	0	2	3
Possible tolerance to mosaic.																	
175696	Tur.	5	4	115	4	18	19	6	8	18	5.4	s	o	p	2	2	2
Attractive type pickler.																	
175697	Tur.	3	4	110	4	17	14	5	6	17	5.1	s	o	p	0-4	2	2
Possible mosaic tolerance; has very long tapering point.																	
176522	Tur.	3-4	4	75	4	14	12	4	5	16	5.3	s	y	p	0	4	4
Carries gene for many small spines, nice uniform green color.																	

P.I.No.	Orig.	Uni.	Vig.	Lgth.	Vine		Leaf		Mat.	Set	Fruit		Shp.	Col.	Sl. or Pick.	Spine Col.	Stip.	Mos.	PM	Ang.
					Leaf.	Lgth.	Lgth.x Wth.	Lgth.			x Diam.									
176952	Tur.	4	4	130	4	19	16	5	6	19	5.0	s	o	s	b	0	3	1	0	
	Unusual type leaf; long lobe with tip; tapering to stem end.																			
177359	Tur.	4	3	60	3	13	12	5	4	14	5.5	s	o	p	b	0	0	3	0	
	Has gene for many and small spines.																			
177363	Tur.	2	3	70	3	14	14	4	4	16	5.3	s	o	p	b	2	4	0	0	
	Possible tolerance to powdery mildew, fruit attractive, pickler type.																			
179260	Tur.	5	8	150	8-9	20	20	4	8	21	4.3	c	o	s	b	2	0	2	0	
	Possible mosaic tolerance.																			
179676A	Ind.	4	4	115	4	20	17	4	6	20	6.0	s	y	s	w	0	3	2	0	
	Fruit has nice green uniform coloring; attractive dark green slicer.																			
183056	Ind.	6	9	140	8-9	19	20	4	6	20	5.2	s	o	s	b	2	0	1	0	
183231	Egy.	2	3	90	3	15	15	5	4	17	5.3	s	o	p	b	0-3	2-3	2	0	
	Carries gene for many small spines.																			
183445	Ind.	4	6	130	5	19	19	3	7	17	6	s	o	p	b	8-9	0	1	0	
	Prolific, attractive pickler except for yellow stippling.																			
183967	Ind.	4	3	110	3	14	14	2	0							8	0	0		
	Very badly mottled by mosaic.																			
188807	Phil.	5	6	135	6	17	18	4	7	20	6.0	s	o	p	b	9	0	4	0	
	Possible mosaic tolerance.																			
192940A	Ch.	6	9	165	8	19	20	4	8	25	5.0	c	o	s	b	8	0	7	0	
	Very large fruit; good mosaic resistance.																			
192940B	Ch.	7	8	110	7	19	19	6	9	23	4.8	c	o	s	w	8	0	6	0	
	Good mosaic resistance.																			
193496	Ethio.	4	3	70	4	15	15	5	3	16	5.0	s	o	p	b	8	2	1	0	
193497	Ethio.	4	5	125	4	14	15	4	6	17	5.2	s	o	p	b	9	3	2	0	
	Fruits rough, warty, & furrowed.																			
197087	Ind.	5	6	150	5	16	16	4	3	22	6.0	s	o	s	b	3	5	6	0	
200815	Bur.	5	6	100	4	18	17	3	6	16	5.3	s	o	p	b	4	7	0	0	
	Some plants have gene for many small spines.																			
200818	Bur.	6	8	140	7	17	17	4	5	14	5.5	s	o	p	b	8	0	0	0	
	Possible tolerance to mosaic & powdery mildew.																			
202801	Syr.	3	3	75	5	13	13	4	3	13	5.2	5	o	s	w	0	9	0	0	
	Fruits have uniform green color; inconspicuous spines.																			
206943	P. Rico	6	4	90	5	15	17	5	6	14	6	s	o	p	b	8	2	4	0	
207476	Afgh.	3	3	75	3	14	15	2	1	11	4.7	s	o	p	b	6	6	0	0	
	Carries gene for many & small spines.																			

P.I.No.	Orig.	Uni.	Vig.	Vine		Leaf		Fruit				Sl. or Spine	Pick. Col.	Shp.	Col.	Stip.	Mos.	PM	Ang. Leaf Spot
				Lgth.	Leaf.	Lgth. x Wth.	Mat.	Set.	Lgth. x Diam.										
211728	Afgh.	4	3	80	3	17	17	2	0								6	0	0
	Has great abundance of male flowers; 8-25-70 female flower first appeared.																		
211977	Ir.	3	4	85	4	14	14	5	5	13.5	4.7	s	o	b	0-3	3	2	0	
	Carries gene for many small spines; attractive, smooth dark green fruit.																		
211978	Ir.	6	6	95	5	15	14	4	5	22	6.0	s	y	w	0	3	1	0	
211979	Ir.	6	7	115	6	18	17	3	6	22	6.3	s	o	b	0	2	2	0	
	Producing good crop in spite of mosaic.																		
211983	Ir.	4	3	80	3	16	16	3	4	16	4.7	s	o	b	0	3	2	0	
	Carries gene for many & small spines.																		
211984	Ir.	4	6	100	4	19	18	6	6	20	5.5	s	o	b	9	3	1	0	
211986	Ir.	4	4	100	4	17	17	3	3	19	4.8	s	o	b	0	2	1	0	
	Carries gene for many & small spines; mosaic symptoms on fruit.																		
212059	Grc.	3	7	130	6	19	19	4	7	23	5.3	s	o	s&p	0-4	0-1	3	0	
	Variable fruit type.																		
212233	Jap.	7	8	135	9	18	18	4	7	22	5.2	s	o	b	0-4	0-2	4-5	0	
212233	Jap.	7	8	125	8	17	17	5	9	22	5.3	s	o	b	0-3	0	2	0	
	Fruits rough & warty; good dark green color; skin cracks on fruit; excellent yield.																		
212599	Afgh.	4	3	80	3	17	15	4	4	14.5	6.0	s	o	b	0	3	2	0	
212896	Ind.	5	8	175	7	15	16	3	5	18	4.8	s	o	b	6-7	0-1	0	0	
	Possible tolerance to mosaic & powdery mildew.																		
212985	Tur.	4	3	90	3	16	16	2	2	11	4.5	s	o	b	3-4	3-4	0	0	
214155	Ind.	9	9+	215	9	20	18	4	6	18	5.5	s	o	b	9	0	0	0	
	Good resistance to mosaic.																		
217946	Pol.	4	4	90	3	15	15	3	3	12	4.5	s	o	b	0	2	4	0	
	Many & small spines; uniform green color.																		
218036	Ir.	4	4	95	4	16	16	4	3	15	5.0	s	o	w&b	7	3	4	0	
	Carries gene for many small spines; mosaic symptoms on fruit.																		
220171	Afgh.	4	3	75	4	16	17	3	3	14	5.8	s	y	w	0	2	3	0	
	Carries gene for many & small spines.																		
228338	Afgh.	5	5	100	4	16	16	4	6	16	5.5	s	o	b	0	2	3	0	
	Carries gene for many & small spines; uniform green color & very smooth.																		
220789	Afgh.	4	3	120	4	16	17	3	6	10	3.5	s	o	b	0	2	2	0	
	Carries gene for many & small spines; very attractive pickler, similar to German type.																		
220790	Afgh.	5	3	100	4	16	16	3	3	14	5.5	a	o	p	0	3	2	0	
	Carries gene for many & small spines; fruits smooth; uniform color.																		
220791	Afgh.	4	3	75	3	15	15	3	3	14	4.8	s	o	p	0	1	4	0	
	Carries gene for many & small spines.																		

P.I.No.	Orig.	Uni.	Vine		Leaf		Mat.	Set	Fruit		Shp.	Col.	Pick.	or Spine Col.	Stip.	Mos.	PM	Ang.	
			Lgth.	Wth.	Lgth.	x Diam.			Lgth.	x Diam.									
229808	Can.	7	125	7	20	22	5	8	15	5.5	s	o	p	b	7	0	2	0	
	Good shaped pickler.																		
234517	Can.	7	85	4	16	16	5	5	14	5.2	s	o	p	b	3	0	1	0	
	Ripe fruits, copper color, cracks & rusted.																		
245735	Tur.	3	135	6	15	16	3	4	25	7	s	o				5	0	0	
	Melon - cantaloupensis; has raised dark green areas.																		
246930	Afgh.	4	100	4	15	15	5	5	14	5.3	s	o	p	b	0	0	3	0	
	Skin copper color & cracked when ripe.																		
248778	Ir.	4	70	3	18	18	3	5	5	16	s	o	p	b	0	3	4	0	
	Carries gene for many & small spines.																		
249550	Ir.	4	100	5	14	13	4	5	15	6.2	s	o	p	b	3	3	2	0	
	Big fruit; big diameter.																		
249561	Thail.	7	4	70	16	16	6	6	11	5.2	s	o	p	w&b	2	3	0	0	
	Dark green leaves; small oval picklers.																		
249562	Thail.	6	7	140	17	15	5	6	18	5.5	s	o	s	b	0	3	0	0	
	Fruits smooth, uniform dark green.																		
250147	W.Pak.	6	140	6	18	18	3	4	16	4.3	s	o	p	b	3	4	0	0	
251028	Afgh.	5	80	4	14	14	3	4	14	6	s	o	p	b	0	2	2	0	
	Ripe fruits have rusted, cracked skin and are copper color; gene for many & small spines.																		
251519	Ir.	7	4	55	3	14	13	5	7	13	5.5	s	o	p	b	0	2	0	
	Carries gene for many & small spines, quite uniform color & shape, smooth fruit.																		
251520	Ir.	5	3	55	2	14	13	5	6	13	5.5	s	o	p	b	0	3	2	0
	Carries gene for many & small spines.																		
255933	Neth.	7	8	150	8	17	16	4	7	23	6.2	s	y	s	w	6	2	0	0
	Possible tolerance to powdery mildew.																		
255934	Neth.	6	7	135	6	14	14	6	7	21	5.0	s	yo	p&s	w&b	0	4	0	0
	Possible tolerance to powdery mildew.																		
255935	Neth.	8	9	150	9	17	16	4	8	23	5.5	s	yo	s	w&b	0	2	0	0
	Excellent yield; tolerant to mosaic; show leaf symptoms slicing types, very attractive.																		
255936	Neth.	5	6	125	6	18	17	5	7	25	5.5	s	yo	s	w&b	0	0	1	0
	Very attractive slicing type.																		
255937	Neth.	3	3	90	4	15	15	3	4	19	5.0	s&w	yo	s	b&w	0-2	6	0	0
	Possible powdery mildew tolerance.																		
255938	Neth.	5	8	175	7	16	14	3	5	20	5.5	s	y	s	w	3-6	3	2	0
	All plants have mosaic; some fruits have 3 lobes.																		
257286	Sp.	7	5	80	5	16	16	5	6	15	5.3	s	o	p	b	4	3	2	2

P.I.No.	Orig.	Uni.	Vine		Leaf		Fruit		Sl. or Spine	Pick. Col.	Shp.	Col.	Stip.	Mos.	PM	Ang. Leaf Spot			
			Lgth.	Vig.	Lgth.	Wth.	Lgth.	Diam.											
264227	Fr.	7	6	120	7	17	16	3	7	16	5.2	s	y	s	w	9	0	6	0
	Carries gene for many & small fruit.																		
264228	Fr.	4	8	155	7	19	19	4	6	28	5.5	s	y	s	w	4	0	3	0
	Some plants good slicer.																		
264229	Fr.	5	7	150	7	17	17	3	6	20	5.5	s	y	s	w	1	4	2	0
	Rougose leaf; some plants, good tolerance to mosaic; attractive slicer.																		
264230	Fr.	6	5	125	6	17	17	5	5	21	5.4	s	o	p	b	3	0	0	0
	Possible tolerance to powdery mildew.																		
264231	Fr.	5	9	120	9	18	18	3	8	23	5.5	s	y	s	w	0	0	1	0
	Nice dark green slicer -- best; possible mosaic tolerance, dark green tolerance.																		
264664	Ger.	3	6	80	6	15	15	5	6	14	5.5	s	y	p	w	9	0	5	0
	Some plants have 3-lobed leaf with long point.																		
264665	Ger.	5	5	125	5	16	17	4	5	17	5.1	s	y	s	w	9	2	4	0
264666	Ger.	6	6	140	5	18	17	4	6	15	4.8	s	y	s	w	9	0	4	0
	Carries gene for many & small spines. Many leaves are 3-lobed; one has tapering lobe.																		
264667	Ger.	3	4	120	4	14	13	6	6	15	5.0	s	o	p	b	9	0	0	0
	Possible tolerance to powdery mildew; some leaves -- 3-lobed leaf; carries gene for many & small spines.																		
264668	Ger.	6	4	60	3	15	14	6	6	15	5.4	s	o	p	b	9	3	3	0
	Carries gene for many & small spines.																		
265887	Neth.	6	6	130	6	16	16	3	5	15	4.7	s	o	p	b	9	0	0	0
	Possible tolerance to mosaic & powdery mildew.																		
267086	USSR	6	7	110	7	18	17	4	7	15	5.2	s	y	p	w	9	0	3	0
	Most plants have long tapering leaves -- 3 lobed.																		
267087	USSR	7	3	50	3	14	15	7	7	8.5	4.8	s	o	p	b	5	3	3	0
	Carries gene for many & small spines; most plants have 3-lobed leaf.																		
267088	USSR	8	7	120	7	16	14	7	7	13	5.2	s	c	p	b	2	0	2	0
	Possible mosaic tolerance.																		
267742	Ch.	4	4	75	3	18	18	3	4	16	4.8	s	o	p	b	8	0	3	0
267763	Ch.	3	5	100	5	18	18	3	4	18	5.0	s	oy	p&s	b&w	9	5	2	0
267744	N.Y.	6	6	110	5	18	18	2	4	26	5.2	c	y	s	w	0	0	0	0
	Fruits taper to stem end; fruits very smooth & attractive dark green.																		
267745	Braz.	6	9	150	9	19	18	3	7	20	5.2	s	o	s	w	7	0	2	0
	Large dark green leaf.																		
267746	Ind.	5	5	75	40	21	17	5	4	15	6.0	s	o	p	w&b	8	0	3	0
267942	Jap.	7	9	165	9	21	20	2	4	25	5.0	c	o	s	b	1	0	3	0
	Large rougose dark green leaves; leaves tapering to blossom end; warty.																		

P.I.No.	Orig.	Uni.	Vig.	Vine		Leaf		Mat.	Set	Fruit		Shp.	Col.	Pick.	or Spine	Stip.	Mos.	Ang.	
				Lgth.	Leaf.	Lgth.	x Wth.			Lgth.	x Diam.							PM	Spot
269481	W.Pak.	4	3	60	3	19	20	6	4	11	4.3	s	o	p	b	0	2	0	0
269482	W.Pak.	3	4	50	5	15	15	3	4	12	6.0	s	o	p	b	1	4	3	0
	Gene for many & small spines; copper color & cracked skin when ripe.																		
271328	Ind.	4	4	120	3	16	16	5	4	14	5.0	s	o	p	b	6	3	3	0
	When ripe, cracked skin.																		
271331	Ind.	6	8	150	8	19	19	8	9	16	4.8	s	o	p	b	9	0	0	0
	Possible tolerance to mosaic & powdery mildew.																		
271335	Ind.	2	6	140	6	16	16	3	5	22	11	s	g		0	0	7	0	0
	Definitely melon.																		
271753	Neth.	6	6	80	4	14	13	6	6	14	5.3	s	o	p	b	8	0	3	0
	Carry gene for many & small spines.																		
271754A	Neth.	6	7	200	7	18	17	5	6	14	4.8	s	o	p	b	7	0	0	0
	Good dark green color; carries gene for many & small spines.																		
271754B	Neth.	8	9+	175	9	23	21	7	8	18	5.1	s	o	p	b	4	0	3	0
274902S ₁	Eng.	7	7	100	7	20	19	3	6	22	5.5	s	y	s	w	0	0	1	0
	Dark green leaves; long petioles; very uniform dark green fruits; fruits taper to stem end.																		
274902S ₂	Eng.	8	9	120	9+	20	19	4	7	25	5.4	s&c	o	s	b	0	3	0	0
	Possible tolerance to powdery & mosaic; 3 different features: very smooth fruit, blue spines, uniform fruit color.																		
274902S ₃	Eng.	3	7	120	6	16	16	6	9	17	5.2	s	yo		w&b	8	2	0	0
275410	Neth.	3	6	95	6	17	14	5	5	20	4.8	s&c	y	s	w	0	0	2	0
	Three features: uniform green fruit, white spines, no striping at blossom end.																		
275411	Neth.	6	6	110	6	19	17	3	6	35	5.0	c		s	w	0	5	1	0
	Mosaic symptoms on fruit.																		
275412	Neth.	5	8	145	8	21	21	3	5	22	5.2	s	yo	s&p	w&b	8	0	3	0
277741	Neth.	7	8	120	8	19	15	3	7	35	5.0	c		s	w	0	3	5	0
	Fruits are uniform dark green; ridged & furrowed.																		
283899	Czech.	7	81	175	8	19	19	9	9	15	5.2	s	o	p	b	6	0	8	0
283900	Czech.	8	8	145	7	16	16	7	8	14	5.0	s	o	p	b	6	0	5	0
283901	Czech.	3	9	150	9	16	18	3	6	20	6.0	s	yo	p	w&b	8	0	7	0
	Very large fruit.																		
283902	Czech.	5	3	75	3	13	13	6	5	12	4.8	s	o	p	b	4	6	2	0
	Mosaic symptoms on fruit; some fruit distorted from mosaic.																		
283699	Swe.	5	4	85	3	14	13	6	5	12	5.0	s	o	p	b	7	0	2	0

LYCOPERSICON ESCULENTUM

Seeds treated with Arasan 75. 1970 Descriptions and Evaluations
 Pricked off 4/29, set in field 5/21, 22, & 27, 2 plants per accession. Spacing
 8' x 2' + 6'. Fertilizer 640 lb. 10-20-20/A. Notes taken 8/6, 11, 13 & 14/70.

Col. 3	Uniformity	9=very	5=medium	1=not uniform	
Col. 4	Habit	D=determinate	I=Indeterminate		
Col. 5	Vigor	9=very vigorous	5=medium	1=prostrate	
Col. 6	Plant height in centimeters				
Col. 7	Plant width in centimeters				
Col. 8	Maturity	9=very early	5=medium	1=very late	
Col. 9	Days to Harvest				
Col. 10	Set	9=heavy	5=medium	1=light	
Col. 11	Fruit Depth in centimeters				
Col. 12	Fruit Diameter in centimeters				
Col. 13	Fruit Shape	g=globular	ch=cherry	f=flat	pr=pear
Col. 14	Fruit	UR=uniform ripening		GS=green shoulders	c=curved
Col. 15	Exterior Color	9=dark red		5=medium red	1=orange
Col. 16	Interior Color	9=dark red		5=medium red	1=orange
Col. 17	Number of locules	9=very many		5=moderate	1=few
Col. 18	Radial Cracking	9=much		5=medium	1=little
Col. 19	Concentric Cracking	9=much		5=medium	1=little
Col. 20	Amount of Fasciated Fruit	9=many		5=medium	1=few

pl=plum

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Days to	Fruit			UR		Color No.	Cracking		Amt.
					Ht. x Wth.	Mat.		Harv.	Set	Depth. x Diam.	Shape	GS		Ex.	In.	
128234	Bol.	3	I	3-7	50 80	2	134	4-5 4.5	8.0	f	ur	d y l y	7	1	1	8
	Six very small plants; small plants quite uniform - large plants quite uniform. No fruit ripe yet 8/11/70; no set on small plants; little set & some fasciation on small plants; some flowers 8/17/70.															
128248	Bol.	7	I	7-8	70 200	3	134	5-6 3.7	4.1	6	gs	m-d m y	3			2
	No fruit ripe yet 8/11/70.															
128254	Bol.	6	I	7-8	80 220	3	134	5 2.8	5.5	f	ur	5 4	6	1		8
	Very little fruit ripe 8/11/70.															
128269	Bol.	6	I	7	90 170	3	134	5 3.3	5.6	f	gs	m o m y	7	1	1	8
	No fruit ripe 8/11/70; very little ripe 8/17/70; quite developed locules.															
128291	Argent.	7	I	7-8	90 190	5	133	6 3.7	5.2	g&	gs	6 7	5	3	1	3
128597	Chile	5	I	6-8	70 170	3	133	5 3.8	4.6	g	ur	6 3	3			
	Few ripe 8/13/70.															
128640	Peru	7	I	8	75 200	5	133	5 3.7	6.3	f&g	gs	6 5	9	2		5
	Very large, leafy plants, little fruit ripe 8/13/70.															
128885	France	7	I	7-8	80 220	5	133	5-6 4.0	5.5	g	ur	6 4	5	1		
	'Mikado Ecarlate'. Few ripe fruits 8/13/70.															
128886	France	5	I	7-8	70 210	7	133	7 4.5	4.0	pr	gs	6 5	2			
	'Mervellie des Marches'.															
128890	France	8	D	7-8	50 180	7	133	6-7 4.0	6.5	g&g	gs	7 6	7	1	1	3
129101	Col.	5	I	6-8	80 180	5	133	6 3.2	4.5	g	ur	y&o l y	5			2
	Variable plant size, few ripe fruits.															
129138	Argent.	7	I	7-8	80 200	6	133	7 4.5	7.4	f&g	gs	6 7	7	2	1	7
	Poor locules.															
148656	Iran	6	I	7	70 160	5	133	5-6 4.9	6.4	f&g	ur	6 5	5	2		
	Few ripe fruits 8/13/70.															
163245	India	7	I	8-9	90 200	5	133	7 2.2	2.6	ch	ur	l o p y	3			
	Very leafy, few ripe fruits 8/13/70, many seeds for small fruits, still blooming 8/13/70.															
175776	Tur.	7	I	8-9	75 230	3	133	4-5 4.5	6.7	f	ur	6 5	7	1		9
	Very vigorous & leafy, few ripe fruits 8/13/70.															
181778	Leb.	7	I	7	100 190	7	132	6 6.0	8.9	f&g	ur	6 3	13	3	1	7
	Large fasciated fruit, majority not ripe 8/13/70.															
205040	Ohio	7	I	9	100 240	4	155			g						1
	Large leafy plants, no ripe fruit 8/17/70, still flowering 8/17/70.															

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Days to Harv.	Mat.	Fruit			UR	Color	No.	Cracking		Amt.					
					Ht. x	Wth.			Set	Depth. x	Diam.				Shape	GS		Ex.	In.	Loc.	Rad.	Conc.
285680	Poland	8	D	7	30	50	7	132	6-7	4.5	8.7	f&g	ur	6	7	9	4					
	Poorly developed locules, large fruit.																					
294439	Israel	8	D	8	30	45	5	132	6	4.5	4.8	g	ur	6	5	2	1					
	Plants look like bush, little ripe 8/14/70, possible crack resistance.																					
303801	Utah	8	I	8	100	220	6	132	7	3.0	3.1	ch	ur	6	2	3						
	'Peru Wild VR'. Few ripe 8/14/70, still blooming 8/14/70.																					
303802	Utah	6	I	8	100	200	7	132	7	3.0	3.5	1 ch	ur	7	5	3	1					
	Some variability in plant size, fruit size, large cherry, lot of seeds for small fruit.																					
G-1591	N.H.	8	D	8-9	50	100	7	132	7	2.6	3.0	s-m	ur	7	7	4	1					
	'Tiny Tim'. Low growing, wide, dark leaves, still blooming 8/14/70.																					
G-1592	N.Y.	8	D	8	35	70	7	132	6-7	4.2	6/8	g	ur	7	5	12	1					
	'Window Box'. Plants bush, poorly developed locules.																					
G-1593	N.H.	8	D	8	40	90	5	132	6-7	5.4	6/7	g	ur	o	o	6	1					
	'Orange Chatham'.																					
G-1594	N.H.	8	D	8	50	100	7	132	7-8	5.0	2.8	pl	gs	7	6	2						
	'N.H. Red Pickler'. Good vigor and set.																					
G-1595	N.H.	8	D	7-8	30	70	8	132	6-7	7.0	5.2	g&	ur	6	5	6	1					
	'Redskin'.																					
G-2209	Pa.	7	D	6-7	50	80	140	3														
	None ripe (Pollinating by hand), no ripe fruit, little set 8/18/70.																					
321056	Italy	6	I	8	60	160	132	5-6									2-3					
	'Conserva'. Variable plant size, none ripe 8/14/70, no ripe fruit 8/18/70.																					
126410-1	N.Y.	5	I	5	70	210	5	126	4	4.4	5.2	g	gs	4	4	3	1					
x 'Valiant F'.	Fruit are small.																					
126410-2	N.Y.	5	I	5	55	150	5	126	4	4.3	4.3	g	ur	4	3	3	2-3					
x 'Valiant F'.	Few plant,, small fruit.																					
126410-3	N.Y.	6	I	7	90	170	5	126	6	3.7	6.0	f	gs	5	5	6	7					
x 'Valiant F'.	Majority of fruit are small and fasciated.																					
126410-4	N.Y.	8	I	7	60	160	7	126	7	3.2	4.1	g	ur	7	4	4	4					
x 'Valiant F'.	Small fruit, may be cherry tomato.																					
126410-5	N.Y.	8	I	8	60	200	5	126	7-8	4.0	5.5	g	gs	7	4	6	4					
x 'Valiant F'.																						
G-4985	N.Y.	6	I	6-7	65	130	5	126	5	4.1	8.2	g	ur	6	4	6	1					
	Locules are not well formed.																					

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Days to Harv.	Set	Depth. x	Fruit Diam.	Shape	UR		Color Ex. In.	No. Loc.	Cracking		Amt. Fasc. Fruit
					Ht. x	Wth.						GS	Ex.			Rad.	Conc.	
G-12360S	N.Y.	8	I ₂	8	50	190	7	126	7	5.5	7.0	g	ur	6	4	6		
	'Summer Sunrise B ² .																	
G-12361S	N.Y.	5	I	6-8	40	180	7	126	6-7	5.5	6.9	g	ur	6	5	4		
	'Summer Sunrise C ¹ .																	
G-12400S	N.Y.	6	I	7-8	50	160	7	126	7-8	4.8	6.6	g	ur	7	5	6		
	'Rutgers Hybrid C ¹ .																	
G-12400S	1st N.Y.	7	I	7	50	175	5	126	6	5.4	7.8	g	ur	5	3	6		
	'Rutgers Hybrid C ¹ .																	
G-12998	N.Y.	5	I	6-8	70	180	7	126	6-7	4.5	6.2	g	ur	7	4	7	1	1
	271482 x 280060 F ₁ .																	
G-12999	N.Y.	5	I	6-7	50	130	7	127	6	4.1	7.5	g	gs	6	3	8	2	1
	271482 x 285132F ₁ .																	
G-13000	N.Y.	5	I	5-7	45	170	7	127	7	5.0	6.7	g	gs	7	5	6	1	1
	271482 x Loomis Summer Sunrise F ₁ .																	
G-13001	N.Y.	7	I	6-7	70	110	7	127	6	4.8	6.2	g	ur	6	3	7	1	
	280060 x 271482 F ₁ .																	
G-13002	N.Y.	7	D	7	40	100	7	127	7	6.5	6.8	g & ur	6	4	5			
	280060 x 285132F ₁ .											pl						
G-13003	N.Y.	7	D	7	50	100	7	127	7	6.5	8.7	g	ur	6-7	3	7	1	1
	280060 x 285133F ₁ .																	
G-13004	N.Y.	8	I	8	50	160	5	127	7	5.5	8.0	g	ur	6	4-5	7		1
	280060 x Loomis Summer Sunrise F ₁ .																	
G-13005	N.Y.	8	D	6-7	40	100	7	127	6-7	6.2	8.2	g& ur	6	6	6	1		
	285132 x 271482F ₁ .											pl						
G-13006	N.Y.	8	D	7	40	90	7	127	6-7	5.8	7.2	g	ur	6	3	8	1	1
	285132 x 280060F ₁ .																	
G-13007	N.Y.	8	I	8	50	190	6	127	6	6.0	7.0	g	ur	5	4	6		1
	285132 x Loomis Summer Sunrise.																	
G-13008	N.Y.	6	D	6-7	50	90	5	127	5-6	6.5	6.8	g	gs	5	4	4	1	1
	285133 x 280060F ₁ .																	
G-13009	N.Y.	8	D	7	45	105	7	127	6	7.4	9.0	g	ur	7	4	6	2	2
	285133 x 285132F ₁ .																	
G-13010	N.Y.	5	D	7	60	120	5	135	5-6	6.1	6.5	g	gs	5	3	5	2	2
	285133 x Loomis Summer Sunrise F ₁ .																	
G-13183S	N.Y.	7	D	7	45	190	5	127	6	5.5	7.5	g	ur	5-6	6-7	6		2
	Rutgers Hybrid C.																	

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Mat.	Days to Harv.	Set	Fruit		UR	Color		No. Loc.	Cracking		Amt. Fasc. Fruit
					Ht. x Wth.					Depth. x Diam.	Shape		GS	Ex. In.		Rad.	Conc.	
G-20203	Den.	5	I	6-7	60	110	5	132	5	4.8	6.0	g	ur	6	4	3		
	'Earlymuna F ₁ '			Variable plant size, few ripe				8/13/70.										
G-20204	Belg.	5-6 ₁	I	5-7	65	170	2	132	5	4.8	5.8	g	ur	5	3	2		
	'Primo de Supergran'			Variable plant size, no ripe fruit				8/13/70, very little ripe				8/17/70.						
G-20205	Swe.	5-6	I	5-6	65	130	3	132	5	4.7	6.7	g	ur	4	6	5		
	'Patrik F ₁ '			Variable plant size, few ripe fruit, still many blooms				8/13/70.										
G-20206	Swe.	7	I	7	60	110	7	132	5-6	5.0	6.7	g	ur	5	6	3		2
	'Potentat 11 F ₁ '																	
G-20207	Swe.	7	I	9	70	200	7	132	7	4.2	4.7	g	ur	6-7	5	3		1
	'Julia HG'			Very vigorous & leafy.														
G-20208	Rum.	8	D	8	40	100	7	132	7	5.6	7.0	g	ur	6	7	6		
	'Tiomnocrasni'			Very vigorous, good set.														
G-20228	Calif.	7	I	9	100	180	1	140	6-7	5.9	5.7	g	gs	5	2	8		1
	'Grand Prix'			None ripe 8/13/70, very little ripe				8/17/70, poorly developed locules.										
G-20229	Calif.	6	I	7-8	65	150	1	132	6-7	4.0	7.5	g	ur	5	3	8	1	1-2
	'Royal Ace'			Variable plant size, none ripe 8/13/70; no fruit ripe				8/17/70, well developed locules.										
L. escul. x L. pimp.																		
129143	Peru	8	I	9	80	200	7		7	3.0	4.2	g	ur	8	7	5		2
	Small fruit, still flowering			8/13/70, very vigorous, many seeds.														
129156	Ec.	8	I	9	90	180	5	140	8	1.6	1.5	ch	ur	8	4	2		
	Still flowering			8/13/70.														
Lyc. hirsutum																		
127827	Peru	5		8	120	210												
	Variable plant size, no set			8/13, very large plants, no set, still flowering				8/17/70.										

Standard Cultivars Included for Comparison

G-19715	N.Y.	6	D	7	50	130	3	8	5.3	7.0	g	ur	7	8	8	2	0		
	Heinz 1350.			One plant missing, low growing, very little fruit ripe				8/11/70, very dark interior color.											
G-19714	N.Y.	7	D	8	30	110	9	8-9	5.7	6.5	g	ur	6	5	5	1	1		
	'New Yorker'.			Good set.															
H-858	N.Y.	7	D	8	30	110	9	132	8	5.5		9.0	g	ur	7	6	7	1	1
	'Galaxy'.			Very vigorous, good set.															
G-19716	N.Y.	7	I	7-8	60	90	5	132	6-7	5.8		7.0	g	gs	4-5	2	5	1	
	'Sept. Dawn'.			Very large fruit.															

PHASEOLUS LUNATUS

1970 Descriptions and Evaluations

Seeds planted at the Vegetable Research Farm, N.Y. State Agricultural Experiment Station, Geneva, N. Y., by the Department of Vegetable Crops. Notes taken by D. D. Dolan 8/27/70. Planted 5/1/70.

Col. 3	Uniformity	9=very	5=medium	l=least
Col. 4	Habit	p=pole		
Col. 5	Vigor	9=very	5=medium	l=poor
Col. 6	Plant height and width in centimeters			
Col. 8	Leafiness	9=very	5=medium	l=poor
Col. 9	Leaf length x width in centimeters			
Col. 11	Leaf color	dk=dark	md=medium	
Col. 12	Set	9=heavy	5=medium	l=poor
Col. 13	Pod length x width in centimeters.			
Col. 15	Pod shape	fl=flat		
Col. 16	Curvature	cv=curved	s=straight	
Col. 17	Pod Color	gn=green	gr=grey	pr=purple
Col. 18	Yield in grams			
Col. 19	Seed size	md=medium	lg=large	sm=small
Col. 20	Seed shape	fl=flat	cv=curved	rec=rectangular
Col. 21	Seed color	w=white	pr=purple	rd=red
Col. 22	Amount of anthracnose		9=much	5=moderate
				l=little
				ov=oval
				t=tan

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaf		Leaf Col.	Set	Pod		Curv.	Gms.		Seed	F.				
					Ht.	x Wth.	Lgth.	xWth.			Lgth.	xWth.		Yld.	Sz.						
162689	Argent.	4	p	3	18	19	3	10.0	6.5	dk		8.0	2.1	fl	cu.	pl	135	md	fl	ov w	8
	Pods at Geneva.																				
164393	Guat.	6-7	p	6-7	15	34	6	8.2	6.2	dk	8-9	7.7	2.1	fl	sl cv	pl gn	382	md	fl	rec rd pr	0
	Pods ripe 8/28; possible disease resistance.																				
180324	India	5	p	3	17	28	3	6.8	5.0	md											0
195336	Guat.	6	p	3-4	15	29	4	8.4	6.6	md											1
195344	Guat.	5-6	p	4	16	32	4	12.5	10.4	dk											6
197020	El. Sal.	5	p	6	22	35	7	9.7	7.2	md											1
197024	El. Sal.	6	p	8	22	44	7	11.7	8.5	dk											0
	Some plants have purple stems.																				
201289	Mex.	8	p	8-9	40	35	9	8.5	7.0	md											0
	Purple stems.																				
214170	India	5	p	7	14	45	6-7	12.2	8.2	dk											1-2
234256	N.H.	7	p	7	17	35	6-7	10.3	7.3	dk											0
247822	Belg.																				0
	Congo. Possible disease tolerance.																				
248790	Jamac.	4	p	5	12	48	4	14.0	5.7	dk											8-9
	Willow leaf; anthracnose following vein on underside of leaf.																				
249035	Nigeria	4	p	4-5	13-14	29	4	12.0	8.2	md											5
249036	Nigeria	4	p	3	29	26	3-4	10.5	8.6	dk											9
249039	Nigeria	5	p	5	18	31	5	12.5	8.2	dk											4-5
249041	Nigeria	4	p	4	17	45	4	10.8	8.4	md											0
249049	Nigeria	4	p	3	18	35	3	9.6	7.2	dk											6-7
294053	Nigeria	3	p	4	16	35	4	12.8	9.4	dk											0
256384	El. Sal.	7-8	p	7	15	40	6	10.7	8.0	dk											1
256386	El. Sal.	8	p	7	17	35	6-7	10.5	7.8	md											1-2
256392	El. Sal.	6	p	6	17	44	7	12.6	9.5	dk											1
	Large leaf.																				
248789	Jamac.	8-9	p	7	19	29	6-7	11.2	7.5	dk											0
	Dark green pointed leaves.																				
256398	El. Sal.	4	p	4-5	14.5	32	4	9.5	7.2	dk											8-9

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaf.	Leaf		Leaf Col.	Set	Pod		Curv.	Col.	Yld.	Gms.	Seed	Anthr.
					Ht. x Wth.			Lgth. x Wth.				Lgth. Wth.							
256401	El. Sal.	6-7	p	5	11.5	32	5	8.7	6.7	dk									0
	Possible disease resistance.																		
256402	El. Sal.	3-4	p	6	14	44	4	12.0	8.8	dk									5
256403	El. Sal.	4	p	8	16.5	46	7-8	8.5	6.4	md-dk									5
	Small "lopsided" pointed leaf.																		
256406	El. Sal.	4-5	p	6-7	17.5	45	6	13.0	9.8	dk									2
256416	Peru	5	p	8-9	21	48	9	8.0	5.4	dk	9	12.7	2.6	f	str	gn	176	lg fl ov w	0
	Best yield yet of all pole beans. Pods at Geneva.																		
256417	C. Rica	5-6	p	4	12.5	24	3-4	10.2	8.3	dk									2-3
256418	C. Rica	5-6	p	2-3	14	24	3	11.2	7.3	dk									3
	Every plant has virus, common BV ₁ .																		
256419	C. Rica	6	p	4-5	16	40	4	10.8	7.3	dk									8
	Very susceptible to anthracnose.																		
256421	C. Rica	4	p	3	12	31.5	3-4	10.5	7.9	dk	gn								6
256806	Col.	5	p	2	8.5	60	3	10.1	8.0	md									0
	Bacterial spotting on leaves, common bacterial blight.																		
256808	Col.	5	p	2-3	11.5	35	3	8.2	6.8	dk									6
256824	Peru	5	p	6	19	44	6	7.0	5.1	md									0
	Appears to have bacterial spot and leaves "shot-hole" effect.																		
256828	Peru	3-4	p	3	14	27	3-5	8.8	6.5	md									0
256829	Peru	5	p	4	15	40	4	9.2	6.3	dk									0
256836	Peru	6	p	4	35	35	3-4	9.9	5.5	md									2
256844	Peru	6	p	6	21	44	6	8.6	6.0	md									0
	Some plants have brown spots--possible dwarf mosaic.																		
256845	Peru	5	p	9	21	48	8	9.8	6.2	md-dk									0
256850	Peru	5	p	6	14	34	5-6	10.3	7.2	dk	3-4	10.7	2.2	f	s	gn	84	lg fl ov w	0
	Pods at Geneva.																		
256854	Peru	7	p	6	45	35	6	10.5	8.2	md									9+
	Has light green rugose leaves.																		
256856	Peru	4	p	4	16	42	4	9.0	5.9	dk									0
	Pods at Geneva.																		
256857	Peru	7	p	6-7	14	68	6	9.6	6.7	dk									8-9
	Very susceptible to anthracnose.																		
256876	Peru	6-7	p	8	40	45	6	12.3	7.8	dk	1-2	10.0	2.7	fl	s	pr			0

P.I. No.	Orig.	Unif.	Hab.	Plant		Leaf		Col.	Set	Pod		Curv.	Col.	Yld.	Seed		p.
				Ht.	x Wth.	Leaf.	Lgth.xWth.			Lgth.xWth.	Shp.				Gms.	Sz. Shp.	
256879	Chile	6	p	9	25	36	8-9	13.0	10.0	dk							4
	Pods at Geneva.																
256889	Peru	5-6	p	6	17	44	6	10.7	7.0	md	6	cv	gn	89	md	fl ov w	0
	Pods very flat & poorly filled & very thin seed.																
256894	Peru	5	p	3-4	55	70	6	11.0	8.0	dk							0
256904	Peru	7-8	p	8	19	42	7	11.8	8.0	dk							0
	Possible disease tolerance.																
256908	Peru										11.4	3.4	fl	30	lg	fl ov w	0
256910	Peru	5	p	7-8	60	30	6-7	12.0	9.5	dk							
257350	Columb.																
257356	Col.	5	p	2-3	12.5	22	2	8.0	6.2	md							
257357	Col.	5	p	4	12	31	4	11.5	8.0	dk			gn	54	sm	fl ov w	7
	Only 5 plants in row.																
257360	Col.	5	p	3	12	19	3-4	9.8	6.8	dk							0
	Very susceptible to anthracnose.																
257375	Col.	5-6	p	3	9.5	25	3	8.9	7.0	fk							9
257376	Col.	3-4	p	3	12	28	3	8.5	7.0	dk							7-8
257378	Col.	5	p	5	14	38	5	9.0	7.0	dk							7-8
257379	Col.	6	p	7-8	16	35	7	10.5	7.1	dk							5
257385	Col.	3	p	2	8.5	22	2	9.0	7.7	md							3
257390	Col.	4	p	2-3	11	20	2-3	8.7	8.1	md							9
	Very poor growth; no chance of yield.																
257392	Col.	4	p	3	9	23	2-3	9.0	8.1	md							0
	Looks like <u>P. vulgaris</u> .																
257397	Col.	5	p	6-7	16.5	44	6	10.8	7.4	dk							0
257400	Col.	5-6	p	5	15	30	4-5	9.8	7.8	dk							9
257408	C. Rica	3	p	7	16.5	32	7	10.7	5.8	dk							0
	Willow leaf, some.																
257409	C. Rica	6-7	p	3	15	33	3-4	15.0	4.0	dk							0
	Willow leaf.																
257412	Argent.	5-6	p	8-9	19	54	8-9	10.0	8.0	dk							1
257416	Argent.	6	p	7-8	19.5	35	6-7	12.7	9.6	dk	6-7	sl cv	gn	346	lg	fl ov w	2
257551	Mex.	3-4	p	4	14.5	34	4-5	8.0	5.8	md							2-6
	Some plants ready stems; some plants susceptible to anthracnose.																
257552	Mex.	7	p	5	14	48	6	10.6	8.2	dk							4-5
257553	Mex.	5	p	2	11	18.5	2	7.6	5.7	dk	8-9	cv	gn				0
	Very susceptible to BV ₁ .																
257556	Mex.	5	p	6	16	30	4	11.2	8.2	dk							0
257557	Mex.	4	p	5	15	31	4	12.0	8.2	dk							2

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaf		Col. Set	Pod		Curv.	Gms.		Seed
					Ht.	x Wth.	Leaf.	Lgth.xWth.		Lgth.	Wth.		Yld.	Sz.	
257558	Mex.	3-4	p	4	15	29	3-4	9.5	6.2	dk					5
257559	Mex.	4-5	p	3	11.5	53	4	11.0	8.3	dk					5-6
257561	Mex.	5	p	6	15	36	5-6	10.5	8.6	dk					3
257562	Mex.	4	p	6	19	32	4	10.0	6.8	dk					2
257564	Mex.	3	p	8-9	22	40	8-9	12.2	10.2	dk					8
257565	Mex.	6-7	hr	4	10	26.5	3.5	9.8	7.2	dk					3-4
Low spreading plant.															
257566	Mex.	5	p	8	17	40	6.5	9.5	7.4	dk					5-6
Some plants red stems.															
257567	Mex.	6	p	8-9	18.5	34	8	9.0	6.2	dk					2-3
257568	Mex.	4	p	4-6	16	36.5	4-6	10.0	6.9	dk					0
Possible disease tolerance.															
257569	Mex.	5	p	9	21	45	9	10.0	7.7	dk					0
257549	Mex.	5	p	8-9	21	36	8-9	9.7	7.0	dk					0
Possible disease tolerance.															
260407	Peru	4	p	3-4	13.5	30	3-4	8.0	7.2	md					0
Phaseolus vulgaris (ordinary bean), disease looks like common bacterial blight; red stem, rougose leaves.															
260414	Bol.	8	p	9	21	48	8	10.8	7.8	dk					0
Common bacterial blight.															
260415	Bol.	6	p	6-7	19.5	64	6	12.2	9.7	dk					0
Big, broad leaves; very susceptible to red spider mites.															
260416	Bol.	6	p	8-9	16	65	6-7	13.5	9.0	dk					0
Big leaf; possible disease resistance.															
264605	C. Rica	6	p	6	17	34	6	7.8	5.6	md					0
Slender red stems; small leaves; insect damage to leaves.															
299380	Mex.	7	p	6	13	40	6	7.5	5.3	dk	7	7.5	2.0	fl	cv. 150 md fl ov w
Some plants have red stems.															
299385	Braz.	5	p	6	14.5	32	6	9.2	7.0	dk					6-7
Susceptible to red spider mites.															
299386	Braz.	5	p	3	11	28	4	7.0	5.5	dk					1-2
Very susceptible to BV.															
299389	Braz.	5	p	6	13.5	38	6	9.5	7.3	dk					6-7
309819	C. Rica	4	p	4	14	40	5	8.2	5.4	md					0
Very fine red stems.															

P.I. No.	Orig.	Unif.	Hab.	Vig.	Plant		Leaf		Pod		Gms.		Seed	p.			
					Ht. x	Wth.	Leaf.	Lgth.xWth.	Col.	Set	Lgth.xWth.	Shp.			Curv.	Col.	Yld.
310621	Guat.	5	p	6	17.5	42	6	9.2	6.5	dk				0			
310622	Guat.	7	p	6	15.5	36	6	11.3	7.7	dk				4			
310623	Guat.	6-7	p	7	19.5	42	6-7	10.0	7.2	dk				0			
	Some insect damage.																
310624	Guat.	6	p	9	24	42	7-8	10.0	6.7	md-dk				4-5			
	Quite vigorous; some plants ready stems.																
310625	Guat.	7	p	8	20.5	35	7	10.0	7.3	dk				2			
325610	Mex.	6	p	6	17	42	6	10.7	6.6	dk				1			
G-12355	Ariz.	4	p	3-4	18.5	42	4-5	7.0	4.8	md							
G-12920	Ariz.	6	p	5	13.5	32	5	7.0	5.3	m	9	7.5	1.9	fl cv			
	Pods ripe 8/30; spots on pods that look like bacterial spots; some defoliation due to anthracnose, red stems.																
										gn	332	1	fl rec	t 1-2			

1970 Descriptions and Evaluations

Col. 3	Habit	b=bush	p=pole	
Col. 4	Vigor	9=very	5=medium	l=poor
Col. 5	Plant height	x width in centimeters		
Col. 6	Number of leaves	9=many	5=medium	l=few
Col. 7	Flower color	lav=lavender	w=white	pr=purple
Col. 8	Set of pods	9=heavy	5=medium	l=poor
Col. 9	Days from planting to harvest			
Col. 10	Pod length	x width in centimeters		
Col. 11	Pod color	l=light m=medium d=dark	y=yellow	b=brown
Col. 12	Pod shape	r=round f=flat		gn=green
Col. 13	Pod curvature	9=most	5=medium	spl=splash
Col. 14	Pod string or stringless	+string	-stringless	
Col. 15	Pod shattering	9=most	5=medium	l=least
Col. 16	Seed size	s=small m=medium	l=large	
Col. 17	Seed shape	trun=truncate	pl=plump ov=oval	fl=flat
Col. 18	Seed color	l=light br=brown	w=white t=tan	obl=oblong
Col. 19		blk=black gn=green	yel=yellow	spl=splash
Col. 20				r=red
Col. 21	Virus disease	9=severe	5=moderate	pr=purple
Col. 22	Bacterial disease	9=severe	5=moderate	

[illegible]

P.I.No.	Orig. Hab.	Vig.	Plant		Flwr.	Color	Set	Days to Harv.	Lgth.x Wth.	Col. Shp.	Curv.	+ or -	Seed		Diseases
			Ht.x Wth.	Lvs.									Sz. Shp.	Color	
171791	Tur. t	4-5 70	45	8	w	2	113	12.0	1.5 m gn	f	4-7	-	4	s-m pl ov red	0-2 1-4
174984	'Merican'.	Very leafy; several flowers remaining; little set.													
	India t	4-6 75	70	6-8	pr & w										8 8
174916	Variable plant size; several flowers remaining 7/31; no set 8/19.														
	India	3-5 80	40	3-6											7 9
175828	Variable plant size; some plants poor vigor; no bloom 7/31, no set 8/19, all plants dying.														
	Tur. t	7 68	55	7-8	p	7	97	11.0	1.5 m gn	f	5-7	-	6	s trun red & rnd pr	4 6
175845	Several flowers remaining 7/31.														
	Tur. t	7 72	50	6-7	pr & w	6	97	12.0	1 m gn	f	4-7	+	7	s-m trun w, t spl	8 9
175863	Several flowers remaining.														
	Tur. t	7 65	60	7	w	6	97	8.5	1.1 m gn	f	5-7	+	7	s trun w & ov blk	9+ 6
175864	Several flowers remaining.														
	Tur. t	5-6 83	60	7-8	w & pr	5-6	106	11.5	1 m gn	f	4-7	+	6	s-m ov w	9 9
175865	Variable plant size, several flowers remaining 7/31/70.														
	Tur. p	5-7 115	65	5-7	w	6-7	97	13.7	1.4 m-d gn	f	5-8	+		s ov w	9 9+
176692	Several flowers remaining 7/31; good set.														
	Tur. p	6-7 80	60	6-7	w	6-7	97	10.5	1.3 m-d gn	f	6-8	+	7	s-m ov w	9 9+
176695	Some plants missing; good set, several flowers left, some plants good set, others very little.														
	Tur. p	7 50	40	4-5	w	6	97	10.0	1.1 m-d gn	f	6-8	-	5	m trun w	9+ 9+
176705	Some plants missing; variable plant size; very little set 7/31 & 8/19/70.														
	Tur. p	4-7 72	50	4-7	lav	2-3	113	9.0	1.3 m gn	f	5-7	-	4	m pl ov t spl	6 5
176708	Several flowers remaining 7/31; some plants missing; variable plant size.														
	Tur. p	3-7 105	50	3-7	w	4	106	11.9	1.4 m gn	f	5-7	+	5	s-m pl ov w&dk red	6 4
179002	Several flowers remaining 7/31.														
	Tur. p	6-8 90	65	7-8	w	4-5	106	9.2	1.2 m gn	f	6-8	+	6	s-m ov w	9 4
179003	Some constricted pods.														
	Tur. p	4-5 35	55	5	w&yel	4	91	9.0	1.0 gn	f	3-5	+	7	s-m ov w	5 7
179403	Very small plants.														
	Tur. b	2-4 25	30	3	w	2	97	9.3	1.4 l-m gn	f	5-8	+	4	m pl ov w	3 4
179411	Possibly diseased; some plants sparsely foliated.														
	Tur. p	71 105	60	6-7	w	5-6	97	10.3	1.4 m gn	f	5-8	+	7	s ov t	9 5
179412	Variable plant size; some plants dead, some plants missing, pr possible diseased, some plants sparsely foliated, very little set.														
	Tur. p	4-5 95	50	3-5	w	4-5	91	9	1.4 m gn	f	3-7	-	4	s-m pl ov t spl	9 9+
190073	Several flowers remaining 7/31.														
	Guat. b	3-6 50	40	4-6	pr	1	119	10	.9 gn spl	f	4-6	+	5	s ov blk	4 8

P.I.No.	Orig.	Hab.	Vig.	Plant		Flwr.	Days to	Pod		Curv.	Shat.	Seed		Diseases				
				Ht.x Wth.	Lvs.			Lgth.x Wth.	Col. Shp.			Sz. Shp.	Color					
															+	or		
224717	Mex.	p	4-6 82	35	5-7	pr	4	106	11	1.1 m gn	f	4-8	+	4	s obl	blk	9	9
	Variable plant size; some plants missing.																	
224722	Mex.	p	5 69	35	6-7												6	7
	Low growing; no bloom 8/4/70, no bloom 8/19/70.																	
224725	Mex.	p	1-6 60	35	3-7	pr	1	113	10.4	1.2 m gn	f	5-7	+	5	s trun	blk, t	9	9+
	Variable plant size; some plants dying.																	
224728	Mex.	b	4-5 35	40	3-5		1	119	9.3	.7 m gn	f	7	-	5	s ov	lt br	9	7
	Two plants dead; very slender pods.																	
224733	Mex.	p	3-5 60	40	6												6	8
	No bloom 8/4/70, no bloom 8/19/70.																	
224735	Mex.	p	4-7 96	55	5-7		2	113	10	0.9 m-d gn	f	3-6	+	4	s ov	red, br	7	9+
	Variable plant size.																	
224743	Mex.	p	3-6 75	40	3-6		2	97	10.5	0.9 m gn	f	4-7	+	5	s trun	blk	3	9+
	Some plants missing; variable plant size.																	
226476	Ethio.	p	4-7 100	45	4-6	w	5-6	97	9.6	1.1 m gn	f	4-8	+	7	s-m ov	t spl gn gn-br	4	9+
	Variable plant size.																	
226521	Ethio.	p	4-5 98	35	4												7	4
	Some plants missing; fairly small plants; no bloom 8/4/70 & 8/19/70.																	
226525	Ethio.	p	2-5 83	40	2-5												9	9
	Variable plant size; some plants missing; no bloom 8/4/70, no bloom 8/19, plants dying.																	
226661	Iran	p	2-4 50	30	2-4												9+	4
	Small plants; no bloom 8/4/70, no bloom 8/19, plants dying.																	
226862	Sp.	p	3-6 70	40	3-6		2	106	10	1.4 m gn	f	4-7	-	4	m pl ov	t spl	9+	5
	'Alubias Pinta de Leon'. Variable plant size.																	
226883	Fr.	b	6-8 50	55	6-8	pr	7-8	106	11	1.1 yel	f	6-9	+	7	s-m obl	dk bl	2	6
	'Flageolet'. Very vigorous; good set; quite leafy.																	
226888	Sp.	b	7 30	30	6-7	w & lav	7	106	16	1.1 yel	r	5-7	-	4	m obl	w spl	2	3
	'Judia Britle'. Very large pods; long slender pods; some plants missing, good vigor.																	
226891	Sp.	p	4-7 90	45	5-8	lav.	2-5	113	15	1.4 m gn	r	4-7	-	5	s pl ov	red, br	6	5
	'Judia Pintas'. Variable plant size, quite large pods.																	
226893	Ukraine	p	7 87	50	7		6-7	97	10.5	1.5 m gn	f	5-8	+	8	m pl ov	w & pr	4	4
	'Maculata'. Quite large pods.																	
226894	Sp.	p	7-8 145	60	8		6	97	9.2	1.3 yel &	f	5-7	-	6	s-m ov	blk, w t	6-9	7
	'Mantecozade Dragon'. Quite leafy.																	
																	p.	57

P.I.No.	Orig.	Hab.	Vig.	Plant		Flwr.	Days to	Pod		Curv.	or	Seed		Diseases						
				Ht.x Wth.	No. Lvs.			Lgth.x Wth.	Col. Shp.			Sz. Shp.	Color		Virus Bact.					
226896	Fr.	p	4-7	130	50	3-7	7	91	10.5	1.1	yel	r	6-8	+	8	s	ov	blk, w	1-3	6
	'Monj D'or'. Variable plant size.																			
227115	W.Aust.	p	7	115	55	6-7	7-8	97	17	1.2	m gn	r	2-6	+	5	s-m	fl	w	5	9+
	Very large pods.																			
229771	Iran	p	5-7	115	50	5-7	1	6.9	1.3	1.3	f	5	-	-	no				9	3
	Variable plant size.																			
236467	W. Va.	b	5	25	20	2-3	4-5	91	10.2	1.2	m gn	f	5-8	+	5	m	obl	trun	5	5
	'Dunkle Half-runner'. All plants sparsely foliated; small plants.																			
241794	Ec.	p	3-7	85	35	3-7	p												4	5
	Variable plant size; most plants quite leafy; some insect damage on leaves; no bloom 8/4/70, no set 8/19/70.																			
262163	Switz.	b	5-7	45	50	6-7	6-8	106	11.7	1.2	m gn	r	5-7	-	3	s-m	obl	gn & t	1	4
	Fairly good set.																			
278679	N.Y.	p	7	76	35	8	7	106	10.5	1.4	m&d gn	f	6-9	+	7	s-m	pl	ov	br	spk 2
	Very wide pods.																			
281597	Chile	p	7	110	50	7	5-6	97	11	1.8	m gn	f	6-9	-	6	m	pl	ovt	spl	red & blk
	Very wide pods.																			
281969	Chile	p	4-6	91	40	3-6	4-5	97	19	1.1	m gn	f	3-7	-	4	m	obl	w	5	7
	'Enredadera'. Long slender pods; some plants missing; one plant very sparsely foliated.																			
281986	Chile	b	7	65	50	6-7	1	113	11	1.1	m gn	f	6	+	5	m	ov	w	5	6-9+
	'Canario'. Very little set.																			
282018	Chile	b	3-6	50	30	3-7													0-4	8-9
	Variable plant size; some plants missing; no bloom 8/4/70; no bloom 8/19/70, some plants missing.																			
282047	Chile	p	4-6	94	45	3-6													9+	9+
	'Aragon'. Five plants in row; no bloom 8/4/70; no bloom 8/19/70.																			
282693	Md.	b	4-5	40	40	3-6	3	97	9	1.1	m gn	r	3-6	+	5	s	trun	w	9	9+
302535	USA	p	2-6	120	55	2-5	4	91	11.7	.9	gn spl	f	3-6	+	2	s	ov	lt	br	7
	'Mangetout de St. Fiacre'. Several plants missing.																			
309753B	Mex.	p	2-4	57	30	3-5													9	9
	Not too vigorous; no bloom 8/4/70.																			
310469	Fr.	b	2-4	20	20	1-4	4	91	12	1.4	m gn	f	3-5	+	4	s-m	fl	ov	&	3
	'Case Knife'. Most plants sparsely foliated; many pods have turned brown.																			
310470	Fr.	p	7-8	80	60	7-8	7	97	12.3	1.3	m gn	f	6-8	+	8	1	fl	w	3-6	7
	Quite vigorous.																			

P.I.No.	Orig. Hab.	Vig.	Plant		No. Lvs.	Flwr. Color	Days to Harv. Set	Lgth.x Wth.	Pod		Col. Shp.	Curv.	Shat.	Seed		Diseases	
			Ht.x Wth.	Days to					+	or				Sz. Shp.	Color	Virus	Bact.
326418	Neth. p	6-7 65	40 6			7	91	7.8 1.0	gn spl f	7-8	+	7	s	ov	blk	6	9
	'Cornell 49-242'								pr, pr								
343733	Austral. b	5-7 35	40 5-6			2	106	7.3 0.7	gn f	4-6	+	4	s	r	w	7	9+
	'Burnia':	Very little set; pod still very small, little set.															
343734	Austra. p	4-6 74	40 4-7			7	97	7.8 1.0	gn spl f	7-8	+	4	s	r	w	8	9+
	'Gallaroy':	Variable plant size.															
343734-1	Austr. b	4-5 45	40 3-6			2	97	8.0 0.8	gn f	5-7	+	6	s	ov	w	7	9
	Some plants missing;	variable plant size; little set; pods still small.															
343735	Austr. b	5-7 47	40 5-7			2	97	7.5 0.8	gn f	5-7	+	5	s	ov	w	6	9+
	'Kerman':	Some plants missing; very little set; still small pods.															
347637	Ethio. b	5-6 40	40 5-7			pr	6-7 91	8.5 1.0	m gn f	5-8	+	5	s	ov	blk	6	8
G-11110	R.I. b	4-6 25	35 4-6			lav	7-8 91	14.5 1.0	m gn r	4-9	-	4	m	1 ov	t spl	5	5
	Staked for field day;	some plants sparsely foliated; good set. spl pr															
	Very large pods.																
G-11498B	N.Y. b	6-7 25	30 7			w	7-8 91	9.2 1.0	yel f	5-7	+	7	s-m	kid.	w	4	9
	Staked for field day;	fairly uniform row; fairly small plants, good set.															
G-11504	N.Y. b	1-4 16	20 1-4											no harvest		9	4
G-12364DS	R.I. b	6-8 40	50 5-7			lav	8 90	16.5 1.0	yel r	4-7	-	4	m	obl	t spl	0-2	2-4
	Quite vigorous; good set,	very large pods; long slender pods; staked for field day.															
G-12365	R.I. b	5-7 30	40 4-7			pr	7-8 90	15 1	yel r	4-8	-	4	m	obl	t spl	1-2	3
	Staked for field day;	some plants sparsely foliated, good set. & yel spl pr															
G-12366A	N.Y. b	3-7 40	40 2-6			pr	6-7 91	14.5 1.1	l-m gn r	3-7	-	5	s-m	obl	br, t	1-2	0-2
	Staked for field day;	some plants missing; some plants sparsely foliated, variable plant size; variable leafiness; good set, large pods.															
G-12366	R.I. b	5-6 30	40 4-6			pr	6 97	12 .9	m gn r	4-7	-	5	s-m	ov	t spl br	2	2-5
	'A-1 DS'																
G-12366A-2	R.I. b	6-7 40	40 6-7			lav.	7 97	15.2 1.1	m gn r	3-6	-	4	s-m	obl	t spl	0-1	6
	'DS'.	Large pods.															
G-12366AA	R.I. b	4-6 30	40 5-6			pr	7 97	12.1 1.1	m gn r	5-8	-	4	m	obl	br & t	1	6
	Staked for field day;	some plants missing.															
G-12366AA4	R.I.b	7 33	45 6			pr & 7	91	14.1 1.2	m gn r	3-8	-	5	m	obl	br, t	4	5
						yel											

[illegible]

Pod

P.I.No.	Orig.	Hab.	Vig.	Plant		No. Lvs.	Flwr.	Days to		Lgth.x Wth.	Col.	Shp.	Curv.	+ or	Shat.	Seed		Diseases			
				Ht.x Wth.	Wth.			Set	Harv.							Sz.	Shp.		Color	Virus Bact.	
G-12366CS ₁	R.I.	b	3-5	30	45	6	w	4-5	113	11.5	1.1	yel	r	5-7	-	3	s-m	ov	w spl	2	7
G-12366CS ₂	R.I.	b	5	30	35	4-5	w	1	119	8.0	.8	gn	r	6	-	3	s	obl	w spl	3	3-5
G-12366D ₂	N.Y.	b	3-4	25	25	4	w	3-4	91	12.4	1.0	yel	r	5-7	-	3	m	obl	br& w	2	3
G-12366DS ₁	N.Y.	b	6	40	50	5-7	pr, w yel	5-6	106	13.0	1.4	gn & yel	r	6-9	+	5	m	obl	br, blk	0-3	1-6
G-12366DS ₁	R.I.	b	6	35	45	6	wh& yel	6	90	11.5	1.2	yel& gn	r	6-8	-	4	m	obl	br	0-3	0-6
G-12366ES ₁	R.I.	b	5-7	30	40	6-7	pr&w	4-5	113	10.7	1.2	yel	r	6-8	-	4	s-m	ov	t spl	0-2	0-4
G-12367	R.I.	b	5	30	35	3-5	pr	4	91	1.20	1.0	1 gn	r	7-9	-	4	s-m	obl	t spl	0-2	0-1
G-12368	R.I.	b	5	25	30	4-5	pr	6	91	12.5	1.2	1 gn	r	7-8	-	4	m	obl	t spl	gy	0-2
G-12369	R.I.	b	6-7	30	40	6	lav	7	90	13.3	1.2	yel&gnr	r	6-8	-	4	m	obl	t spl	0-2	2
G-12387	N.Y.	b	7	40	45	7	pr	7	90	12.5	1.1	yel& r	r	6-8	-	4	m	obl	t spl	0	2
G-12390	N.Y.	p	4-6	40	50	5-6	pr	5-6	97	11.5	1.1	lt gn spl	r	6-8	-	4	s-m	obl	blk	0-1	4
G-12456	N.Y.	b	4-5	35	40	6											no harvest			6	7
G-13239	N.H.	b	5	30	30	6														0	0
G-14912	Ind.	p	3-4	30	25	4	w	1	119	13.2	1.2	gn	f	6	+	4	m	obl	w	7	9
G-16807B	Me.	b	5-7	40	50	7	w	6-7	90	12	1.3	gn	f	8	+	4	s-m	ov	w, br	0-2	5
G-17265	Ohio	b	6	45	50	6											no harvest		t spl	br	0
G-19015	Conn.	b	5-6	30	40	6-7											5	s	ov	t	3
	'Pease'.																				4

One plant appears to be pole, variable plant size, very little set.

Some pods yellow splash brown.

Fairly vigorous and leafy, not too many pods.

Staked for field day.

Fairly vigorous, staked for field day.

'Tendergreen'. Some pods have brown splashes, some pods red splashes.

'X PI2'. Small leaves, no bloom 8/19/70.

Neither flowers or pods 8/5/70, very dark green, glossy leaves.

'Cook Pole'. Very poor vigor.

Quite vigorous and leafy.

Resembles other row with glossy leaves, several plants appear to be pole.

'Pease'. Leaves look like row #144, glossy leaves.

P.I.No.	Orig. Hab.	Vig.	Plant		No. Lvs.	Flwr. Color	Days to Harv. Set	Lgth.x Wth.	Col.	Shp.	Curv.	+ or -	Pod				Diseases			
			Ht.x Wth.	No.									Sz.	Shp.	Color					
G-19657	Me.	p	3-4	30	4	w	3	106 18	1.3	gn	fl	5	+	3	m	fl	obl	w	9+	9+
'Maine Caseknife.' Poor vigor, some pod constriction, long.																				
G-20196	It.	p	5	30	35	5	w	5	91 12.5	1.0	gn	f	7-9	+	1	s-m	fl	ov	t	9
Pods splashed red, some constriction.																				
<u>Phaseolus hybrid</u>																				
304809	USA	b	4-6	35	35	3-7		4	113 8.5	.9	m	gn	r	6-8	+	4	s	ov	w	0
Some plants missing.																				
<u>Phaseolus vulgaris x Phaseolus coccineus F8</u>																				
263001	Neth.	p	4-5	30	40	5	w&yel	5	91 8.5	1.0	gn	r	7-8	-	7	s-m	trun	w	6	9
Some constriction.																				
<u>Phaseolus vulgaris x Phaseolus coccineus F7</u>																				
267763A	N.H.	b	5	25	30	5	w	5	91 12.5	1.5	yel & gn	f	5	-	7	m	obl	w	6	9
267763B	N.H.	b	3	30	25	3		2	91 9.5	1.2	gn	f	6	-	4	s	pl	ov w, br	7	9
Some pod constriction																				
<u>Standard Cultivars Included for Comparison</u>																				
G-19725	N.Y.	b	4-7	40	45	5-7	w	7	14	1.2	m	gn	r	4-8	-			w	1-2	4
'Tendercrop' Variable plant size; some plants missing, some flowers remaining 7/31; good set, variable leafiness.																				
G-19724	N.Y.	b	5-7	50	50	5-7	w&yel	7-8		13.8	.9	1-m	gn	r	4-8	-	5		2	3
'Harvester'. Fairly good set; long slender pods.																				
G-19723	N.Y.	b	7	27	20	2-4	pr	7-8		9.5	1.0	1	gn	r	5-8	-			0-2	0
'Provider'. Pods are turning brown 8/4/70, low growing, small plants.																				
G-18524	N.Y.	b	7	35	40	6	w	7-8		14.5	.9	yel	r	3-6	-				0-1	4
'Kinghorn Wax'. Very small plants; good set; long, slender pods.																				
G-19763	N.Y.	b	7	35	40	7	pr	7-8		12.3	.9	m	gn	r	6-8	-			1	6
'Executive'. Fairly uniform row; good set for small plants; long slender pods.																				

P.I. No.	Orig.	Hab.	Vig.	Plant		No. Lvs.	Flwr. Color	Days to Harv.	Lgth.x Wth.	Col. Shp.	Curv.	+ or -	Pod		Diseases
				Ht.x Wth.	Shat.										
													Sz. Shp.	Color	
SI9028	N.Y.	b	7-8	40 50	7-8	w	6	10.1 1.4	1-m gn f	7-9	+			0-3	4
	'Steuben Yellow Eye'. Quite vigorous, uniform, quite leafy.														
TA-70	N.Y.	b	7	40 40	7-8	w	6	14.5 1.5	gn f	9	+			0-1	8
	'White Kidney'. Fairly vigorous, very leafy.														
G-19764	N.Y.	b	4-6 35	40 40	4-5	pr	4-5	14.2 1.2	1 gn r	7-9	-			0-1	4
	'Improved Tendergreen'. Some pods have brown and red splashes.														

PISUM SATIVUM

1969 Greenhouse Peas

First, Second, & Third Plantings

1970 Greenhouse Planting

Seeds treated with Arason 75. First planting planted Aug. 14 & 15, 1969; second planting planted November 3, 1969; third planting planted December 19, 1969. 1970 planting planted January 29, 1970 & March 6, 1970. P seed/5" pot, 20 pots:maximum. Notes taken: 1st planting 10/10/69, 2nd planting 2/2/70, 1970 planting 5/12/70.

Col. 3	Uniformity	9=most	5=medium	1=very variable
Col. 4	Habit	t=tall	d=dwarf	
Col. 5	Vigor	9=very	5=medium	1=poor
Col. 6	Plant height in centimeters.			
Col. 7	Nodes - number between base and first flower.			
Col. 8	Number of leaves.			
Col. 9	Color of leaves:	d=dark	m=medium	1=light
Col. 10	Days to Bloom - number of days to first bloom.			
Col. 11	Flower Color	w=white	p=purple	pi=pink
Col. 12	Set of seeds	9=excellent	5=medium	1=few or poor
Col. 13	Doubling	f=frequent	i=intermediate	r=rare
Col. 14	& 15 Pod size in centimeters			
Col. 16	Ovules Per Pod - number of seeds per pod.			
Col. 17	Days to Harvest - number of days to harvest of ripe pods.			
Col. 18	Seed Size	s=small	m=medium	1=large
Col. 19	Seed Surface	s=smooth	w=wrinkled	
Col. 20	Seed Color	l=light	gn=green	t=tan
		br=brown	dk=dark	spl=splash
		p=purple	gy=grey	
Col. 21	Virus general	9=most	5=medium	0=least

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Modes	No.Col.	Leaves to Days	Flw.	Blm.	Col.	Set	Dbl.	Lgth.x Wtn.	Pod Size	Per Pod	Ovules Days to	Seed Sz.	Surf. Col.	Virus
Pisum sativum																				
1st Planting																				
119794	Argen.	9	d	8	48	12	9	d	55	w	5	r	5.7	1.3	5	96	1	r	1	gn
Dry pod, very light tan, netted or veined grey.																				
166142	Ind.	8	t	5	120	13	3	1	34	w	4	r	6.0	1.1	7	66	m	r	1	gn
Pods translucent, constricted.																				
171810	Tur.	8	t	8	190	21	4	1	76	w	3	r	6.7	1.7	7	91	m	r	t,	gn
Stucco pod, some pods 7 seed/pod. Poor yield.																				
175227	Ind.	8	t	9	180	18	6	m	75	w	4	i	6.8	1.3	6	91	1	r	t	
Some stucco pods, dry pods light tan, veined grey, seeds tan dark hilum. Stucco pod is 175227B.																				
183910	Tur.	9	t	8	170	20	8	d	75	w&p	2	i	5.7	0.9	6	125	s-m	r	gn,	t
Some pods stucco, very late maturity.																				
183945	Ind.	7	t	8	170	22	6	m	46	w	4	r	5.7	1.2	5	87	m	r	gn	
Dry pods, small, tan. Medium yield, small pod.																				
210587	Eng.	8	t	8	185	21	8	1	53	p			8.2	1.6	7	96	1	r	v	lt gn
'King Tut'. Pods large, purple veined, shells very easily.																				
210590	Wisc.	7	t	8	200	20	9	1	75	w	3	r	5.7	1.1	5-6	116	m	r	t	
'Multiplier'. Late maturity. Good yielder, shell very easily.																				
210669	USA	8	t	8	167	14	7	m	34	p	5	f	6.3	1.4	6-8	74	m	r	gn,	t, grey
Some pods pinkish when dry. Pods taper to stem end, veined. Some stucco pods.																				
210670	Wisc.	9	d	9	60	16	9	d	39	w	7	r	9.3	2.3	6-7	80	1	r,	w	gn
Pods large flat, veined, pinkish when dry. Shell very easily. Area of seeds around hilum and raphe is lighter color.																				
222534	Wisc.	6	t	7	180	12	4	m	31	w	6	r	6.2	1.7	6	74	m	r	gn	
Pods almost persistent green, green strip on ventral suture, finely veined, shell easily, 5 seeds/pod.																				
224677	Wisc.	8	t	8	175	14	6	d	31	w	7	r	6.0	1.7	4-5	74	m	r	gn	
Pods short, fine veination, shell easily. Good yield, many seeds 2-tone, green vs. grey-green.																				
4-5 seed/pod.																				
244104	Neth.	6	t	8	168	20	8	d	39	w	5	r	6.5	1.6	6-7	87	m	r	gn	
Excellent yield. Dry pods pinkish tan. Pink sutures. Shells easy, very attractive.																				
271114	Mali.	7	t	8	200	22	9	d	107	p	1	i	5.3	0.7	4	157	m	r	gn,	br
286607	Thail.	7	t	8	210	19	6	m	34	w	6	r	7.3	1.4	7	66	m	r,	wr	1 t
Edible pod, pod constricted, wrinkled, translucent. Pod wall very flimsy & brittle.																				
314795	Austr.	9	d	9+	45	12	9	d	57	w	7	f	6.7	1.4	4-5	87	m	r	gn	
Dry pods tan, flat, veined, broad loose, flat pod.																				

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Leaves		Nodes	Days		Set	Dbl.	Pod Size		Per	Ovules		Days	Virus				
							No.	Col.		to	Flw.			Lgth.	x		Wth.	Pod			Harv.	Sz.	Surf.	Col.
314798	Austra.	8	i	9	120	17	8	1	34	p	8	r	4.5	1.3	4-5	66	s	r	dk gn					
	Leaves very small, pods small, shell easily. Seeds dark green, black hilum. Seed coat finely spotted black.																							
314803	Austra.	8	t	7	175	23	7	1	39	pi	8	r	5.5	1.4	5-6	66	m	r	gn, t					
	Pod wall thin, veinated, brittle. Pods ridged at ventral suture, shell very easily. Seeds greenish tan, black hilum. Good yield, pods in pairs.																							
319374	Mex.	8	t	8	150	19	7	m	57	w	7	f	7.2	1.5	5	87	1	r	1 tn					
	Stucco pod, late maturity. Seeds large, round, light tan, dark hilum.																							
331414	Ethio.	7	t	9	170	22	5	1	77	w	4	r	5.9	1.3	5	108	m	r	gn, t					
	Pods spiral when dehiscence. Seeds round but indented. Greenish tan but finely spotted brown. Poor yield.																							
343824	Ugan.	6	t	8	160	23	8	m	57	w	6	f	6.0	1.3	7-8	87	s, m	r	1 t					
	Pods large, green strip on ventral suture, veinated, high ovule. Pods brittle, thresh easily. Seeds variable in size and color.																							
343935	Ethio.	7	t	8	160	24	8	m	57	w	5	f	7.0	1.4	7	84	m	r	1 tn					
	Pods large, green stripe on ventral suture, veinated, high ovule. Thresh easily. Excellent yield.																							
343936	Ethio.	8	t	9	170	22	6	d	46	p	3	f	6.8	1.4	7	80	s-m	r	gn					
	Pods 1/2 stucco, 1/2 not very fine type stucco. At first sight resembles mite injury. Pods poorly filled. Variable in seed size and color.																							
G-18278	USA	9	d	8	28	7	5	d	26	w	7	r	6.5	1.7	4	60	1	r	gn					
	Pods large, veinated, shell easily. Poor set, poor yield, seeds attractive, full green. Wilson T6-194.																							
G-18298	USA	8	t-d	8	85	14	7	d	40	p	7	r	5.0	1.2	5	66	s	r	b					
	Wilson T6-286. A tall dwarf, small pod. Shell easily, when dry pods dehiscence & spiral, seeds green spotted brown, green stripe on ventral suture of dry pod.																							
G-18322	USA	7	t	8	170	21	8	m	57	pi	5	f	5.8	1.2	5	87	1	r	t					
	Wilson W-737. Dry pods, tan, veinated red, seeds cloudy tan, finely spotted brown.																							
G-18959	USSR	9	d	9	45	8	3	m	32	w	8	r	6.0	1.5	6	61	m	w	1 gn					
	'Everbearing'. Tall long-setting. Seeds medium size, wrinkled, grey-green. Balloon pod, shells very easily.																							
2nd Planting																								
343958	Tur.	8	t	9	210	22	9	d	70	p	6	r	5.1	1.0	7	121	s	r	gn					
	Stucco pods.																							
343959	Tur.	5	t	5	165	17	3	1-m	56	p	3	r	8.2	1.6	6	86	1	r	gn spl p					
343970	Tur.	8	t	9	65		8		113	p	4		5.6	1.0		143	s	r	gn					
	Tan pod, stucco pod, 7 seeds/pod.																							
344009	Grc.	8	t	7	82		7		140	w&p	6		8.5	1.1		170	m	r	gn spl b					
	Tan pod, stucco pod, 8 seeds/pod.																							

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Nodes	Leaves	to	Flw.	Col.	Blm.	Set	Dbl.	Pod Size		Per	Ovules		Days	Harv.	Seed		Virus	
							No.	Col.									Lgth.	x		Wth.	Pod			Sz.	Surf.		Col.
2nd planting (con't.)																											
344537	It.	7	t	8	105		8	118	p	6							6.5	1.0				149	m	r	gn	spl b	
Much branched at base and at axils. Tan pod, speckled pod, 8 seeds/pod.																											
344538	It.	9	t	6	72		5	118	p	6							6.5	1.0				149	m	r	gn	spl b & p	
Tan pod, stucco pod, 7 seeds/pod.																											
344539	It.	7	d-t	6	140		7																				
Intermediate habit, very much branched both at base and at axils. Small leaves.																											
343984	Tur.	6	t	6	175		21	56	m	p	4					r	6.3	1.4	4			88	m-l	w	gn	spl p	
P. sat. subsp. hortense.																											
343985	Tur.	8	t	8	180		19	56	d	p	7					r	7.8	1.7	6			86	l	r	gn	spl p	
P. sat. ssp. hortense.																											
343989	Tur.	7	t	7	180		15	56	m	w	7					r	6.0	1.7	5			87	m-l	r	l	t	
Stucco pod. P. sat. subsp. hortense.																											
343990	Tur.	5	t	7	190		22	52	m	w	3					r	8.1	1.5	7-8			86	l	r&w	t, gn		
343994	Tur.	3	t	2	30			108			3						5.0	1.2				135	m		gn	spl b	
P. sat. subsp. syriacum. Much branched at base. Very low habit. Tan pod, stucco pod, 5 seeds/pod.																											
343996	Tur.	6	t	5	67		5	99	p	4												129	s		gn	spl b	
P. sat. subsp. syriacum. Color of pod unknown.																											
343999	Tur.	7	d	5	64		17	91		6							4.4	1.0				140	m		gn	spl b & p	
P. sat. subsp. syriacum. Leaves are very small & serrate. Tan pod, stucco pod.																											
344004	Tur.	7	t	4	70		14	105	p	2							3.4	1.0	129	s			r	gn	spl b & pr		
P. sat. subsp. syriacum. Wild pea, leaves very small, late, tan pod 4 seeds/pod.																											
3rd Planting																											
166142	Ind.							41	w								5.5	1.0	5			69	m	r	gn		
Edible podded type, stucco pods.																											
171810	Tur.							51	w&p								7.0	1.3	6			77	m	r	gn,	t	
331414	Ethio.							58	p								5.5	1.2	6			87	m	r	gn	spl p	
120617	Tur.							73	p								4.5	1.1	5			77	s	r	gn	spl p	
206845	Germ.							51	w								7.5	1.5	6			87	l	r	gn,	t	
210613	Iowa							58	w								6.3	1.6	4			101	l	w	gn		
210647	Iowa							58	w								5.2	1.5	5			101	l	r&w	gn		
Broad pod.																											
210649	Iowa							53	w								7.4	1.6	5			101	l	r&w	gn,	t	

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Nodes	Leaves		Blm.	to Flw.	Col.	Set	Dbl.	Pod Size		Per	Ovules Days		to Harv.	Seed		Virus
							No.	to		No.	Col.						Lgth.	x Wth.					Sz.	Surf.	Col.

210649								58	w								7.4	1.6	5			101	1	r&w	gn & t	
175227B	Ind.							53	w								6.4	1.3	4			83	m	r	gn & t	

1970 Planting																										
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183910B	Turk.							66	w								6.3	1.3	6			97	m	r	gn, t	
183910A	Turk.							67	p								5.2	1.1	7			97	s	r&w	gn	

Standard Cultivars Included for Comparison

First Planting																
G-17408	N.Y.	9	d	9	80		14	9	d	52	w	8	i	7.2	1.9	7
	'Perfected Freezer	60'														
'Wando'	N.Y.	9	d	9	70		17	9	d	39	w	9	f	6.5	2.0	7
Second Planting																
G-17408	N.Y.	9	d	8	60		16	8	m	49	w	7	r	7.0	1.7	6
	'Perfected Freezer	60'														
'Wando'	N.Y.	9	d	8	40		14	7	m	49	w	8	r	6.7	1.4	5

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Nodes	Leaves		Flw.	Col.	Set	Dbl.	Pod Size		Per	Ovules Days		Seed	
							No.	to		Blm.	to					Lgth.	x		Wth.	Pod		Harv.
1970 planting - planted 3/6/70.																						
<u>Pisum sativum</u>																						
347277	Ind.	7	d	8	52	15	7	d	47	w	8-9	f	7.2	1.5	7	77	1	w	1-m	gn		
	Very attractive, heavy yielding dwarf, very uniform.																					
347361	Ind.	7	t	5-7	70-110	21	4-5	d	60	w	4	f	6.0	1.3	7	88	m-1	s&w	1-d	gn, 1 t		
	Side branches come off at right angles.																					
347377	Ind.	4	t	4	115	18	3	m	56	w	3	r	6.1	1.5	6	77	m	w	1	gn, 1 t		
	Beak on end of pod dries up to a thread.																					
347381	Ind.	7	t	9+	130	16	5-6	m	47	w	5	r	5.8	1.3	5-6	77	m-1	s	1	gn, 1 t		
	Very plump smooth pods with square ends, tail on pod dries to a thread.																					
347407	Ind.	6	t	3	75	18	3	m	56	w	2	r	4.8	1.4	4	73	m	w	m	gn, m t		
	Small leaves, slender stems, plant damaged by mites.																					
347420	Ind.	7	t	7-8	100	21	5	d	56	w	4	f	6.3	1.4	8	88	m-1	s&w	1-d	gn, m t		
	High ovule number.																					
347421	Ind.	8	t	9	135	20	5	d	45	w	9	f	7.3	1.4	6	77	1	s	1	gn		
	Very attractive tall, long internodes, green axils, tail at end dries up.																					
347426	Ind.	6-7	t	6	125	22	4	m	54	w	4-5	r	5.9	1.3	6	80	m-1	s	1 t, 1-m	gn		
	Some doubling of pods.																					
347446	Ind.	3	t	3-6	65-125	16	3	m	46	p	4	r	5.3	1.0	5	73	m	w&s	m-d	gn		
	Some dwarf plants, ripe about 5/18.																					
347449	Ind.	4-5	t	6	100	17	4	d	43	p	6	r	5.9	1.1	4-5	70	m	s	m	gn	spl b	
	Pods might be ripe about 5/15, pods 2 brownish streaks on ventral suture.																					
347451	Ind.	3-4	t	4	95	15	3-4	m	48	p	4	r	4.3	1.0	4-5	70	s-m	s	m-d	gn	spl b	
	Small leaves, slender stems.																					
347465	Ind.	7	d	7-8	67	9	3-4	m	47	p	8	r	5.5	0.9	5	73	s	s	m	gn	spl b	
	Small leaves, tail reduced to thread and dries up, slender stems.																					
347487	Ind.	7	t	9+	125	21	7	d	52	p&r	7	f	6.3	1.2	7	70	m-1	w&s	m	gn		
	Very tall, excellent vigor, red axils, long internodes.																					
347491	Ind.	3	t	4	90	18	3	m	56	p	2	r	5.0	1.1	4	80	m	w	m-d	gn	spl p	
	Two plants, slender stems, very susceptible to mites, dying before harvest.																					
347511	Ind.	5	t	3	60	15	2	m	60	w	2	r	3.5	0.8	4	88	1	s	1	t		
	One plant, very weak and mite infested.																					
347512	Ind.	3	d-t	3-6	55-130	18	3	m	53	w	3	r	5.5	1.3	5	80	s-m	s&w	m t, m	gn	spl p	
	Very variable plants, two colors of flowers.																					
347523	Ind.	7	t	6-7	115	20	4	d	57	p&r	3-4	r	6.0	1.3	6	88	1	w&s	d	gn, d	gn	spl p

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Days			Set	Pod Size		Ovules		Days		Seed	
						Nodes	Leaves	to Flw.		Lgth.x	Wth.	Per	to			Sz.	Surf. Col.
G-20053	Ind.	3-4	d-t	4-6	58-110	15	3-4	m	42	8	w&p r	6.0	1.2	4-6	70	m	w&s l-m gn
One of earliest pods ripe 5/12, most plants have green axils, some have purple axils.																	
G-20056	Ind.	6	t	8	100	21	3-4	d	42	p&r	5-6 f	6.5	1.3	6	70	m	w&s gn
Very tall, purple axils, dark green leaves, 2 toned flowers.																	
G-20057	Ind.	7	t	8	120	22	5-6	d	49	p&r	4 r	5.9	1.1	5	70	m	s&w m gn, m gn spl p
G-20058	Ind.	6-7	d	6	70	15	3-4	m	43	p	6-7 r	5.8	1.1	4-5	70	s-m	s m-d gn spl b spl p
Pod has 2 purple streaks along ventral suture, pod has square end, tail dries up while still green.																	
G-20061	Ind.	3-4	t	6-7	100	15	5-6	l	45	p&r	8 r	8.5	1.5	6-7	77	m-l	w&s l t spl p
Constricted pods, early, edible pods, pale pod color, seems to be linked to yellow leaf color. m gn spl p																	
G-20062	Ind.	3	t	5-6	115	20	4	d	55	p&r	3-4 r	6.0	1.3	6	80	m-l	w&s gn spl p
Variable flower color, tall plants with long internodes, purple axils.																	
344539	Italy	8	t	9	190	24	5	m	41	p	3 r	7.0	0.9	9	77	s-m	s d gn spl b
P. sat. ssp. elatius. Planted 11/3/69, 10 seeds, very much branched & vining, very attractive to mites, small leaves, fine stems, slender pod & slightly curved, stucco pods or neo-plastic.																	
183910B	Tur.	7	t	9	125	26	6-7	m	66	w	6 r	6.4	1.3	5-6	97	m-l	s l gn, l t
Planted 9 seeds 1/29/70, stucco pods.																	

PISUM SATIVUM

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in field 4/16, 128 seeds/accession. Spacing 4' x 1 1/2" + 4'.
Fertilizer 640 lb. 10-20-20/A. Notes taken 6/23-25/70.

Col. 3	Uniformity	9=most	5=medium	1=very variable
Col. 4	Habit	f=tall	d=dwarf	
Col. 5	Vigor	9=very	5=medium	1=poor
Col. 6	Plant height in centimeters.			
Col. 7	Nodes - number between base and first flower.			
Col. 8	Number of leaves.			
Col. 9	Color of leaves	d=dark	m=medium	1=light
Col. 10	Days to Bloom - number of days to first bloom.			
Col. 11	Flower Color	w=white	p=purple	
Col. 12	Set of seeds	9=excellent	5=medium	1=few or poor
Col. 13	Doubling	f=frequent	r=rare	
Col. 14	& 15 Pod size in centimeters			
Col. 16	Ovules Per Pod - number of seeds per pod.			
Col. 17	Days to Harvest - number of days to harvest or ripe pods.			
Col. 18	Seed size	s=small	m=medium	1=large
Col. 19	Seed Surface	s=smooth	w=wrinkled	
Col. 20	Seed Color	gn=green	p=purple	t=tan
		b=brown	l=light	m=medium
		d=dark	spl=splash	
Col. 21	Virus general	9=most	5=medium	0=least

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Leaves		Nodes	Days to Blm.		Flw. Col.	Pod Size		Ovules Per Pod	Days to Hbr.		Seed		Virus	
						No.	Col.		Set	Dbl.		Lgth.	x Wth.		Pod	Heat.	Sz.	Shape.		Col.
Pisum sativum																				
210590	Wisc.	8	d	8	100	18	7	m	62	w	6	f	5.7	1.4	7	100	s-m	s	t, l-d	0-2
No set 6/23/70, pods are quite flat, several flowers 7/6/70.																				
243824	Ugan.	8	t	8	120	16	7	m	60	w	6	f	7.0	1.5	8	99	l-d	s	l t, l-d	0
No set 6/23/70.																				
343935	Ethio.	8	d	8	95	16	7	m	60	w	6	f	7.1	1.5	7	100	m	s	t, m gn	0-1
No set 6/23/70.																				
343936	Ethio.	8	t	8	110	15	7	m	55	p	7	f	5.8	1.3	6	99	m-l	w	m-d gn	0
No set 6/23/70.																				
343957	Tur.	8	d	8	80	16	7	m	60	p	7	f	8.5	1.7	8	99	m-l	w	spl br	0-1
No set 6/23/70, pod constriction, large pods and large ovules.																				
343958	Tur.	4	d	5	75	8	5	d	55	p	4	r	5.4	1.0	6	88	s-m	s	d gn	0-4
Variable plant size, small plants, few pods 6/23/70, small pods, stucco pods, pod is thick.																				
343959	Tur.	6	t	7	100	16	6	m	60	p	5	f	9.5	1.8	8	102	l	w	m gn spl	0-3
Few pods 6/23/70, pod constriction, flat pods, large ovules.																				
343960	Tur.	8	t	8	100	16	8	m	55	p	7	f	8.0	1.8	8	95	m	w	spl br	0-4
Very vigorous, good, early set, edible podded pea, flat pods, pod constriction.																				
343961	Tur.	7	d	7	75	13	7	m	53	w-p	5	r	6.0	1.2	6	102	s-m	s	t, gn & gn	0-2
Wh. & pr. flowers, white predominant, little set 6/23/70, some stucco pods																				
343962	Tur.	6	t	4	75	9	4	l	62	p	1	f	7.0	0.8	7	88	s	s	gn spl br	0
Two plants in row, sparsely foliated, small leaves, poor vigor, very thin vines, slender pods.																				
Very little set 6/23/70.																				
343964	Tur.	5	t	5	70	12	4	l	64	p	3	f	7.0	1.0	8	95	s	s	l-d gn, d t	0
7 plants in row, all plants poor vigor and sparsely foliated, very small leaves, very straggly, spl b & p																				
poor set.																				
343965	Tur.	8	d	9	100	12	8	m-d	54	w-p	8	r	5.5	1.2	6	84	l	s	l-d gn, t	2
Small bushy plants, good set, very thin stems, some pods neo-plastic.																				
343966	Tur.	8	d	9	100	5	9	d	55	w	8	f	8.5	1.9	7	99	l	s	spl br & p	0-2
Wide pods, very large pods, very leafy, very vigorous, pods quite flat.																				
343967	Tur.	7	d	8	100	9	7	d	53	w	8	f	8.0	1.8	8	95	m	s	l-m gn	0-1
Pods broad and flat, quite vigorous.																				
343968	Tur.	7	d	8	110	15	8	m	60	p	6	f	9.5	1.8	8	102	l	w	l-d gn &	0-2
Pod constriction, plants look very hardy, big leaves, red streaks on stems, large ovules.																				
l-d t spl p																				

Pea con't.

Days

Ovules

P.I.No.	Orig.	Unif.	Hab.	Plt. Vig.	Ht.	Nodes	Leaves No.Col.	Days to Flw.	Flw. Col.	Set	Dbl.	Pod Size Lgth.x Wth.	Per Pod	Vines
343969	Tur.	8	d	8	50	8	8	55	w, p	8	f	7.7 1.8	8	0
	Few plants have purple flowers, flat pods, plants quite bushy, very vigorous.													
343970	Tur.	6	d	6	55	8	5	64	p	2	r	6.6 1.2	7	0-2
	Some stucco pods, six plants in row, sparsely foliated, poor vigor, purple streaks on pods, very small seeds, no set 6/23/70.													
347270	India	7	t	7	70	9	7	56	w	6	f	8.0 1.4	7	0
	Very little set 6/23/70.													
347271	India	6	d	7	65	7	7	60	w	6	f	7.5 1.5	6	0-1
	Variable plant size, some plants in row dead, no set 6/23/70.													
347272	India	7	d	7	60	8	7	55	w	5	f	8.2 1.3	8	0-3
	Good set for few plants, about 1/2 of row of plants dead, very little set 6/23/70, plants quite vigorous.													
347273	India	7	d	7	60	11	8	55	w	5	f	7.7 1.3	8	0
	Very little set 6/23/70.													
347274	India	6	d	7	60	8	6	56	w	5	f	7.7 1.7	8	0-2
	Variable plant size, some plants dead in row.													
347275	India	6	t	7	100	9	5	6-8	w	6	f	10 2	8	0-1
	Some plants dead, viney plants, fairly sparsely foliated, big pods.													
347276	India	7	d	7	55	13	7	55	w	5	f	7.5 1.4	7	4
	Few pods 6/23/70.													
347278	India	9	t	9	120	14	8	55	w	6	f	6.1 1.2	6	0
	Little set 6/23/70, large ovules.													
347279	India	7	t	8	135	15	8	56	w	6-7	r	9.4 1.9	8	0
	Quite vigorous, little set 6/23/70, some neo-plastic pods, very large pods.													
347280	India	6	t	8	120	13	7	53	w	8	f	7.1 1.6	7	0-2
	Very vigorous, good set.													
347281	India	8	d	8	80	10	8	56	w	6	f	7.1 1.5	7	0-2
	Very vigorous, very leafy, little set 6/23/70.													
347282	India	7	t	7	105	14	8	60	w	6-7	f	7.0 1.5	8	0
	Some plants dead, very leafy, no set 6/23/70.													
347283	India	7	d	6	95	15	6	55	w	6	f	5.6 1.4	6	0
	Little set 6/23/70, short distance between nodes, but long vines, not very leafy.													
347284	India	5	t	5-7	100	14	5-8	55	w	5-6	f	6.0 1.5	6	0-1
	One plant dead; very little set 6/23/70.													
347285	India	6	t	5-8	115	12	5-8	60	w	6	f	7.6 1.4	7	0
	No set 6/23/70, some plants sparsely foliated.													

Pea con't.

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Leaves		Days to Flw.	Col.	Set	Dbl.	Pod Size		Fol.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.	Days to Flw.	Col.	Set	Dbl.
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Pea con't.

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Leaves	to	Days	Pod Size	Per	to	Seed	Virus				
							Nodes	Flw.									Col.	Set	Dbl.	Lgth.x Wth.
347303	India	6	t	7	100	14	6-7	m	55	w&p	6	r	6.0	1.1	5	102	s-m	s	1 t, 1-d gn	0-1
	One plant has few purple flowers.																			
347304	India	7	d	7	85	10	7-8	m	60	w	6	f	6.6	1.5	6	102	m-1	s	1 t, 1-d gn	0-1
347305	India	8	d	7	85	12	7	m	55	w	5-6	f	6.5	1.3	8	102	m-1	s	1 t, 1-d gn	0
	Little set 6/24.																			
347306	India	6	t	6-7	100	12	7	m	53	w&p	5-6	r	5.9	1.2	6	102	s-m	s	1-m t, m gn	0
	One plant has few purple flowers.																			
347307	India	5	t	6-7	100	9	7-8	m	53	w	6	f	6.6	1.6	7	102	m	s	1, 1 gn	0
	Very little set 6/24.																			
347308	India	6	t	5-7	100	14	7	m	62	w	5-6	r	7.0	1.6	6	102	m-1	s	1-m gn	3
	Only half of a row of plants, little set 6/24.																			
347309	India	5	t	7-9	115	14	8	m	60	w	7	f	6.5	1.2	5	103	m	s	1-m t spl br & t	
	Quite vigorous & leafy, very little set 6/24																			
347310	India	8	t	8	100	16	8	m	60	w	6-7	f	6.3	1.3	7	102	m-1	s	1 t, 1-d gn	0-1
	Little set 6/24; vigorous.																			
347311	India	6	t	5-7	105	9	6-8	m	56	w	6	r	5.2	1.4	5	102	s	s	1 t, 1-m gn	2
	Variable plant size, little set 6/24; some stucco pods.																			
347312	India	7	t	6-7	130	16	7	m	55	w	6-7	r	6.7	1.4	6	102	m-1	s	1 t, m-d gn	0-3
	Little set 6/24.																			
347313	India	8	d	7	96	12	7-8	m	60	w&p	7	f	6.9	1.5	7	103	m-1	s	1 t, 1 & d gn	0-1
	One plant has few purple flowers, little set 6/24.																			
347314	India	6	d	7	75	10	6	m	55	w&p	6	r	5.2	1.0	6	102	s	s	t, lt gn	0-2
	One plant dead, one plant has purple flowers, little set 6/24.																			
347315	India	6	d	7	85	14	7	m	60	w	6	f	6.4	1.4	6	102	l	s	1 t, m-d gn	0 3
	Some erect plants, fairly leafy, little set 6/24.																			
347316	India	7	t	8	100	15	8	m	55	w	5-6	r	6.3	1.2	7	102	s-m	s	1 t, m-d gn	0-2
	Very vigorous and leafy, little set 6/24.																			
347317	India	7	d	7	70	14	7	m	60	w	5	f	6.0	1.4	7	102	s-m	s	t, d gn spl	2-5
	Little set 6/24.																			
347318	India	7	d	7	85	9	6	md	60	w	5	f	4.8	1.0	5	102	s-m	s&w	p, 1 dk gn	0-2
	Little set 6/24.																			
347319	India	7	d	7	80	11	7	m	55	w	6	r	7.1	1.5	6	105	m	s	1 t, 1 & d gn	0-1
	Little set 6/24.																			

Pea (con't.)

Pea (con't.)															Days		Ovules		Seed		Virus
P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Leaves	to	Flw.	Pod Size	Per	to	Days	Pod	Harv.	Sz.	Surf.	Col.			
347320	India	6	t	8	105	15	7	m	62	w	5-6	f	6.8	1.5	7	102	m	s	1-m t, 1-m gn	0-1	
	Variable plant size, some erect plants, little set 6/24.																				
347321	India	6	a	7	85	15	7	m	62	w	5	f	6.5	1.4	8	103	s-m	s	1 & d t, gn	0-2	
	Several plants dead at end of row, variable plant size, little set 6/24, plants quite erect.																				
347322	India	6	t	7	80	11	7	m	55	w	5	r	6.0	1.4	6	95	s-m	s	1 t, 1 gn	0-4	
	No set 6/24, long internodes, but vines are not long.																				
347323	India	5	d	6	80	14	6	m	60	w	5	f	6.8	1.5	7		m-l	s	1 t, m-d gn	0-3	
	Some plants dead, little set 6/24, variable plant size.																				
347324	India	6	d	7	75	13	7	m	62	w	5-6	f	6.5	1.3	7	103	m-l	s	1-m t, m-d gn	0-3	
	Little set 6/24, large ovules.																				
347325	India	6	t	7	90	17	7	m	57	w	5-6	f	6.1	1.3	6	95	m	s	t, 1 gn	1-4	
	Little set 6/24.																				
347326	India	6	d	7	90	15	8	m	60	w	5-6	f	6.8	1.5	7	103	m-l	s	t, 1 gn	0	
	Little set 6/24, large ovules, some pods have red spots.																				
347327	India	7	t	7	90	13	7	m	57	w	5	f	6.0	1.3	5	103	m-l	s	1-m t, 1 gn	0	
	Little set 6/24.																				
347328	India	6	d	7	80	9	7	m	56	w	5	f	4.8	1.0	6	105	s-m	s	1 t, 1 gn	0	
	Little set 6/24, half of plants in row dead, small pods.																				
347329	India	6	d	5-7	85	12	7	m	55	w	5	f	6.5	1.5	6	95	s-l	s	t, 1-d gn	0	
	Several plants dead, little set 6/24, variable plant size, large ovules.																				
347330	India	8	t	8	120	17	8	m	62	w	6	f	6.8	1.5	6	105	m-l	s	1 t, 1-d gn	0	
	Little set 6/24.																				
347331	India	7	t	7	100	14	7	m	56	w	5	f	6.5	1.5	5	105	s-l	s	1 t, m d gn	0-2	
	Little set 6/24, half of plants dead in row.																				
347332	India	7	t	8	120	17	8	m	60	w&p	6-7	f	6.0	1.2	7	105	m-l	s	1 t, 1-d gn, 0-3 d gn spl p		
	One plant in row purple flowers, little set 6/24.																				
347333	India	6	d	7	85	18	7	m	56	w	5-6	f	6.1	1.2	6	105	m	s	1 t, m-d gn	0	
	Little set 6/24.																				
347334	India	7	t	8	125	12	7	m	60	w	5-6	f	6.9	1.5	6	105	m-l	s	1 g, 1 gn	0-2	
	Little set 6/24, fairly erect plants, short internodes, but long vines.																				
347335	India	7	d	8	110	18	7	m	62	w	6	f	7.0	1.5	6	103	s-m	s	t	0	
	Little set 6/24, consistent length between internodes, but long vines, some plants missing at end of row, large ovules.																				

Pea (con't.)

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Flw.	Pod Size		Ovules		Days	Virus					
							Leaves	to		Lgth.	x	Wth.	Per			to				
																	No.	Col.	Blm.	Col.
347336	India	8	t	8	90	16	7	m	65	6-7	f	7.0	1.4	7	103	m	s	1 t, m & d	0	
	Little set 6/24, quite erect plants.																			
347337	India	7	t	7	110	13	7	m	55	6	r	5.6	1.1	5	102	s-m	s	t, 1 gn	0	
	Some set 6/24.																			
347338	India	5-7	t	7	110	10	7	m	55	5-6	f	7.0	1.6	7	104	m-1	s	t, 1-d gn	0	
	Variable plant size, little set 6/24.																			
347339	India	7	t	8	105	15	7	m	62	6	f	6.7	1.5	6	104	m-1	s	1 t, 1-d gn	0	
	Some erect plants, little set 6/24, quite vigorous, one plants has purple flowers.																			
347340	India	7	d	8	90	11	7	m	55	6-7	f	6.7	1.4	6	104	1	s	1 G, 1 gn	0	
	Little set 6/24																			
347341	India	6	t	7	120	15	7	m	60	6-7	r	7.2	1.4	7	104	m-1	s	t, m gn	0-2	
	Variable plant size, several erect plants, some set 6/24.																			
347342	India	6-7	d	7	90	8	8	m	55	6	r	5.0	1.4	5	102	s-m	s	1 t, 1 gn	0	
	One plant has purple flowers, variable plant size, no set 6/24.																			
347343	India	7	d	7	90	17	7	m	62	6	f	5.1	1.1	5	105	m	s	1 t, 1-d gn	0	
	Some plants missing at end of row, some erect plants, no set 6/24.																			
347344	India	6	d	7	85	16	6	m	66	5	f	5.8	1.3	6	104	s-1	d	1 t, 1-d gn	0	
	Some erect plants, no set 6/24.																			
347345	India	6	d	6	75	11	7	m	74	3-4	r	5.9	1.0	7	103	m	s	1 t, 1 gn	0	
	No bloom 6/24, half of plants in row missing, vines rather thick, little set 7/6.																			
347346	India	6	d	7	80	14	6-7	m	77	4-5	r	7.0	1.4	7	104	s-m	s	1-m t, 1 gn	0	
	Several plants missing, no bloom 6/24.																			
347347	India	7	d	7-8	85	11	7-8	m	60	7	f	6.1	1.1	5	104	1	s	1 t, 1-d gn	0-2	
	No set 6/24.																			
347348	India	6	d	7	90	13	6-7	m	53	6-7	f	6.5	1.4	7	104	m-1	s	1 t, m-d gn	0-2	
	Some set 6/24.																			
347349	India	8	d	7	80	10	7-8	m	55	5	6	r	5.4	1.1	7	95	m-1	s	1 t, 1-d gn	2
	Little set 6/24, variable leafiness.																			
347350	India	9	t	8	102	14	8-9	m	56	6-7	f	7.0	1.6	8	104	m-1	s	t, 1-d gn	0	
	Very vigorous, uniform, & leafy, little set 6/24 plants quite erect.																			
347351	India	9	t	8	100	13	8-9	m	55	6-7	f	7.0	1.4	7	104	m-1	s	1 t, 1-d gn	0	
	Very vigorous, uniform, & leafy; little set 6/24, internodes are consistent in distance apart, quite erect plants.																			
347352	India	6	d	6-7	95	13	6-7	m	55	6	f	6.8	1.3	7	95	m-1	s	1 t, 1-d gn	0	
	Little set 6/24, variable plant size, & leafiness.																			

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Pea (con't.)

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Flw.	Col.	Set	Dbl.	Pod Size		Per	Ovules		Harv.	Seed		Virus	
							Leaves to No.	Col.					Lgth.	x		Wth.	Pod		Sz.	Surf.		Col.
347371	India	8	t	7	105	15	8	m	55	w	7	r	5.9	1.2	5	104	m	s	t, l-d gn	0-1		
	Some set 6/24, quite uniform & leafy, small pods.																					
347372	India	6	t	6-7	92	13	7	m	55	w&p	5	r	6.0	1.2	6	104	s-m	s	1 t, 1 gn 1 & d t	0-1		
	Variable plant size, few purple flowers.																					
347373	India	7	d	7	70	9	7-8	m	56	w	4	r	5.2	1.3	6	104	s-m	s	1-d t, 1-d gn	0-2		
	Many flowers still in bloom 7/6/70.																					
347374	India	8	d	7	90	15	7	m	55	w	7	r	7.0	1.4	6	102	m-l	s	1 t, 1-d gn	0		
	Some plants missing at end of row, quite uniform.																					
347375	India	8	t	7-8	105	10	7-8	m	55	w	6-7	f	6.0	1.2	7	102	s-m	s	1 t, 1 gn	0-3		
	Little set 6/24; small pods.																					
347376	India	7	d	7	93	12	7	m	55	w	7	r	6.5	1.2	6	104	m	s	1-m t, 1-m gn	0		
347378	India	8	d	7	95	15	7	m	55	w	6	r	5.7	1.4	5	96	m-l	s	1 t, 1-d gn	0-2		
	Some set, quite uniform.																					
347379	India	7	d	6-7	80	13	6	l	56	w&p	6	f	5.5	1.2	6	96	s-m	s	1-m t, 1 gn	3-7		
	Plants quite spindly, leaves are small, one plant purple flowers, no set 6/24.																					
347380	India	8	d	7	80	12	7	m	56	w	6-7	f	6.4	1.4	7	104	s-m	s	t, 1-d gn	4		
	Some set 6/24, fairly uniform.																					
347382	India	7	d	7	95	12	7	m	54	w&p	6-7	f	6.0	1.5	7	96	s-m	s	t, 1-d gn gn spl p	1-5		
	Little set, some purple flowers.																					
347383	India	8	d	7	95	11	7	m	55	w	6	r	6.0	1.3	6	104	m-l	d	1 t, 1-d gn	0-2		
	Some set 6/24.																					
347384	India	7	d	7	80	8	7	m	56	w	5-6	r	6.8	1.5	7	96	s-m	s	1 t, 1 gn	3		
347385	India	5-7	d	7	75	15	6	m	55	w	5	f	6.5	1.3	6	104	s-m	s	t, 1-d gn	2		
	Variable plant size, some set 6/24, one plant purple flowers.																					
347386	India	6	d	7	60	8	6	m	55	w&p	6	r	6.0	1.1	7	96	s-m	s	1 t, 1 gn	3		
	Some set 6/24.																					
347387	India	6	d	7	85	7	7	m	55	w	6-7	f	6.2	1.3	6	104	m	s	1-m t, 1 gn	0-2		
	Some set 6/24.																					
347388	India	6	d	7	95	14	7	m	55	w&p	6	r	5.8	1.2	5	96	s-m	s	gn, t gn spl p	0-2		
	Some purple flowers, some set 6/24.																					
347389	India	5-6	t	6	100	11	6	m	55	w	5	r	6.0	1.1	6	92	s-m	s	1 gn, t	0-5		
	Some plants missing, variable plant size, plants look spindly and small leaves, some set, much pea streak.																					
347390	India	6	d	7	100	11	7	m	55	w	6	r	5.3	1.0	6	92	m	s	1 t, 1 gn	0		
	Some set 6/24, distance between nodes quite consistent and vines are long.																					

Pea (con't.)

Days										Ovules			Days	
Days to										Days to			Days to	
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Days

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt.	Nodes	Leaves No.Col.	to Blm.	Flw.	Col.	Set	Dbl.	Lgth.x Wth.	Pod Size	Per Pod	to Harv.	Sz.	Seed Surf.	Col.	Virus
347445	India	6	d	7	82	10	7	m	55	p	5-6	r	7.0	1.2	6	96	s-m	s	l gn, br, t	0-1
347447	India	5	d	6	65	7	6	l	55	p	3-4	r	7.7	1.7	6	96	s-m	s&w t spl p, gn	0-2	
347448	India	6	d	7	85	12	7	m	55	p	6	f	6.0	1.0	6	96	s-m	s&w l gn & l gn	0-3	
347450	India	5	d	6	48	3	5	d	53	p	5	f	5.7	1.0	1	88	s-m	s d gn spl	0-2	
347452	India	7	d	8	70	12	7	m	60	p	6-7	f	5.7	1.1	5	91	s	w m gn, t	0-1	
347453	India	7	d	7	90	13	8	m	60	p	5-6	f	6.0	1.1	6	96	s-m	w l-d gn	0-3	
347455	India	7	t	7	100	13	8	m	62	p	5	r	6.1	1.1	7	98	s-m	s&w l gn, t spl	0-2	
347456	India	6	t	7	105	14	7	m	57	p	6	f	5.4	1.2	5	96	s-m	s&w m gn, gn &	0	
347457	India	5	d	6	70	9	6	l gn	53	p	6	r	6.3	1.3	7	88	m	w m gn, l gn	0-2	
347458	India	5	d	6	85	13	6	l gn	53	p	7	r	6.5	1.3	6	88	s-m	w m gn, gn spl	0	
347459	India	6	d	6	70	8	6	m	53	p	6	r	5.4	1.0	5	88	m-l	w d gn	0-2	
347460	India	5	d	6	90	9	6	m	53	p	7	r	5.7	1.3	7	88	m	w d gn	0-2	
347461	India	6	t	6	105	12	7	m	55	p	6-7	f	6.6	1.3	7	98	s-l	w m gn, m gn spl	0	
347462	India	6	t	6	110	8	6	l-m	53	p	7	r	6.2	1.1	6	88	m	w d gn	0-2	
347463	India	6	d	6	85	8	6	m	53	p	7	r	5.8	1.2	6	88	m	w m-d gn	0	
347464	India	6	d	7	50	2	7	d	50	p	7	r	5.1	1.0	5	84	s	s d gn, gn	0-3	
347466	India	7	d	7	45	7	7	d	50	p	7	r	4.4	1.0	4	91	s-m	s&w spl b spl p	0-2	

Pea (con't.)

Pea (con't.)

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.		Days		Flw.	Set	Dbl.	Pod Size		Ovules		Days	Seed		Virus				
						Nodes	Leaves	to	Blm.				Col.	Lgth.	x	Wth.		Per	to		Harv.	Sz.	Surf.	Col.
347467	India	7	d	7	55	9	6	1	50	p	6	r	4.5	1.0	6	88	s	s	gn spl b	0-3				
	Green pods 6/15, small plants.																							
347468	India	5-6	d	6	60	6	5	1	50	p	5	r	4.0	1.0	6	91	s-m	s	d gn spl	0-4				
	Green pods 6/15, some plants missing, small plants & small leaves, some plants sparsely foliated, b spl p some pods purple spots.																							
347469	India	5-7	t	7	100	10	7	m	60	p	6	f	5.8	1.0	7	96	s	s&w	l gn	0-2				
	Some set 6/25.																							
347470	India	5-7	t	7	110	10	6	m	55	p	6	f	6.0	1.0	7	96	s	s&w	l gn & l b	0-2				
	Some set 6/25.																							
347471	India	6	t	7	105	8	6	m	53	p	7	r	6.0	1.3	7	88	s-m	w	m gn	0-1				
	Pods have purple spots where ovules are located.																							
347472	India	7	t	7	100	11	7	d	55	p	7	r	5.7	1.0	7-8	91	s-m	w	l-d gn, d gn spl p	0				
	Purple spots on pods, some set 6/25, but several flowers.																							
347473	India	4	d	4-6	80	9	4-6	d	53	p&w	5-6	r	6.2	1.3	8	85	s-m	s	l gn spl b	3				
	Some plants missing, variable plant size, not very vigorous, few white flowers, some pods have spl p purple spots.																							
347474	India	6	d	5-7	95	8	6-7	m	55	p	5	r	5.5	.9	5	97	s-l	s&w	l gn spl b	0-2				
	Some set 6/25, fairly small pods.																							
347475	India	5	d	5-7	80	5	4-6	m	53	p	6-7	r	5.2	1.2	6	91	m	s&w	t & l gn	0				
	Some plants sparsely foliated, some pods have purple spots, variable plant size.																							
347476	India	5	d	6	90	8	5-6	m	53	p	6	r	7.5	1.3	8	88	s-m	w&s	m gn	0				
	Some plants sparsely foliated, some pods have purple spots on one side.																							
347477	India	6	t	6-7	105	11	7	m	55	p	6-7	r	6.4	1.2	8	92	m	w	gn, gn spl b, spl p.	0				
	Some set 6/25.																							
347478	India	6	d	6	88	8	6	m	53	p	7	r	6.5	1.4	6	88	s-m	s&w	l gn, t	0-1				
	Good set for not very vigorous plants.																							
347479	India	4	d	4-7	75	9	5-7	m	56	p	6	r	6.3	1.2	7	98	s	s&w	l gn, t	0				
	Variable plant size, some set 6/25.																							
347480	India	6	t	7-8	115	10	7	m	60	w	6-7	r	6.2	1.2	6	91	s	s	t	2				
	Several plants missing, quite vigorous, some set 6/25.																							
347481	India	5	d	6-7	85	9	6-7	d	55	w	6	r	9.5	1.9	8	97	m-l	w	l gn & t	0-2				
	Pods quite flat, variable plant size, 1 plant quite erect.																							
347482	India	7	d	6-7	55	10	7-8	d	55	w	8	r	7.3	1.4	7	91	m-l	w	l gn & t	0				
	Some plants missing, quite leafy for small plants. many short internodes per vine.																							

Pea (con't.)

Pea (con't.)										Days to		Ovules		Days		Seed		Virus	
P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Nodes	Leaves No.Col.	Blm.	Flw. Col.	Set	Dbl.	Pod Lgth.	Pod Size Wth.	Per Pod	Harv.	Sz.	Surf.		Col.
347483	India	6	t	6-7	105	11	6 m	53	p	6-7	r	5.2	1.2	6	88	m-1	w m gn	0-2	
	Some pods have purple spots on one side.																		
347484	India	6	t	6	90	8	5-6 m	53	w&p	6-7	f	8.6	1.5	7	91	m-1	w 1-m-d gn	0	
	Some plants sparsely foliated, one plant has few purple flowers, some set 6/25.																		
347485	India	7	t	7	96	11	7 d	62	p	6	r	6.4	1.3	6	97	m	s&w 1 gn	0	
	Little set 6/25.																		
347486	India	4	d	4-7	75	12	5-7 m	53	p	6	r	5.1	1.1	6	85	s-m	s 1 gn, t spl	0	
	Some plants missing, variable plant size, some purple spots on one side of pods, fairly small pods.																		
347488	India	6	t	5-7	115	14	4-7 m	61	p	5	r	6.0	1.0	5	97	s-m	s&w 1 gn	0-3	
	Some plants sparsely foliated, very small distance between nodes, many flowers in bloom 6/25.																		
347489	India	6	d	6	60	8	5-6 d	55	w	7-8	f	7.8	1.5	7	76	m-1	w gn	0-3	
	Variable leafiness, good set for average size plants, large pods.																		
347490	India	6	t	6-7	120	10	5-7	55	w	6	r	10.4	2.0	8	91	m	w 1 gn	0	
	Large pods.																		
347492	India	6	d	6-7	60	7	6-7 m	4	p	7	r	4.3	0.9	6	83	m	s gn splbb	3	
	Some plants missing, very small plants, leaves & pods.																		
347493	India	7	d	7	85	11	7 m	50	p	5-6	f	6.0	1.4	6	91	s-m	s 1-m gn, 1 br	0	
	Some plants missing, some set 6/25.																		
347494	India	7	d	6-7	65	9	7 m	52	w	6	r	6.4	1.2	6	97	s	s&w t & 1 gn	0	
	Some plants missing, little set 6/25; many flowers yet 7/7/70.																		
347495	India	7	t	7	105	11	8 d	50	w&p	7	f	5.4	1.1	5	91	m	s t, cy	0	
	Several plants have purple flowers, very leafy, good vigor, some set 6/25.																		
347496	India	6	d	5-6	85	10	6-7 d	53	p	7	r	5.0	1.0	5	88	m	w d gn	0	
	Variable leafiness & plant size, good set, small pods.																		
347497	India	5	d	6-7	60	7	5-6 d	53	w	7	r	7.2	1.6	7	91	m-1	w 1 gn, t	0-2	
	Good set, variable plant size.																		
347498	India	7	d	7	58	8	7 d	55	w	7	r	8.0	1.4	9	97	m-1	w 1-m gn	0	
	Good set, many ovules per pod.																		
347499	India	7	d	7	60	9	7 d	60	w	7	f	6.0	1.3	6	97	m-1	w&s 1-m gn	0-2	
	Most plants missing; some set 6/25, quite vigorous for so few plants.																		
347500	India	5	d	6-7	60	9	6 d	55	w	6	r	5.0	1.0	6	97	s-m	w m gn	2-4	
	Some set 6/25, variable plant size.																		
347501	India	5	d	5-6	73	8	5-6 d	55	w	7	r	7.0	1.2	7	91	m-1	w 1 gn	0-3	
	Some plants missing, some set 6/25.																		

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Pea (con't.)

Pea (con't.)										Days		Ovules		Seed		Virus				
P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Nodes	Leaves No.	Col.	Blm.	to Flw.	Set Dbl.	Pod Lgth.	Size x Wth.	Per Pod	Days to Harv.		Sz.	Surf.	Col.	
347502	India	6	d	7	65	9	6-7	d	55	w	7	r	5.8	1.4	7	91	s-m	w	1 t, 1-d gn	0
	Good set.																			
347506	India	5	t	5-7	97	8	5-7	m-d	53	w	6	f	6.2	1.2	7	88	m-l	w	1 gn, t	0
	Variable plant size, many flowers still in bloom 6/25, some set 6/25.																			
347507	India	7	d	6-7	55	10	6	m	55	w	6	r	6.6	1.0	6	91	s-m	w	1 gn, t	0-3
	Some plants missing, some set 6/25, very short distance between nodes.																			
347508	India	7	d	8	53	12	7	m	55	w	5-6	f	5.6	1.0	5	96	m	s	1-m t, 1-m gn	0-2
	Some set 6/25, some plants missing at end of row, good vigor.																			
347509	India	7	d	7	60	11	7	d	55	w	8	f	8.2	1.5	7	96	m	w	pale gn	0
347510	India	5-6	d	6	60	9	7	d	53	w	7	f	10	2	9	91	m	w	1 g, 1-d gn	0-4
	Some plants missing, some pods very dark green, very thick vines for small plants, still many flowers 6/25, good vigor.																			
347513	India	7	d	7	80	10	7	1-m	55	w	5	f	8.2	1.5	7	88	m-l	w	1 gn	0
	Some plants missing at end of row, some set 6/25, large pods, large ovules.																			
347514	India	8	d	8	85	12	7	m gn	55	p	6	f	6.0	1.0	8	98	s	s&w gn, t, gn	spl p & spl b	0-3
	Long distance between nodes, some set 6/25.																			
347515	India	6	d	7	60	9	6	d	55	w	6	f	8.0	1.7	8	103	l	w	1 gn, t	0
	Some plants at end of row missing, still many flowers 6/25, possible better set at later date, fairly vigorous small plants.																			
347516	India	6	d	5-7	90	9	5-7	d	53	p	7	r	5.7	1.5	7	88	s-m	s	m gn & 1 gn	0-5
	Variable plant size, some pods have purple spots on one side, great distance between nodes.																			
347517	India	7	d	7	80	11	6	d	53	p	7	r	6.0	1.3	7	88	m-l	w	1-m gn, gn spl p	0-2
	One plant appears to be dying.																			
347518	India	6	d	7	50	10	7	d	55	w	7	f	8.4	1.8	9	103	m	w	t, 1 gn	0-2
	Large pods, similar to 'Wando', very vigorous, good set.																			
347519	India	6	d	7	95	6	6	d	53	p	7	r	6.5	1.0	7	84	m	w	1 gn, gn	0-1
	Some plants sparsely foliated, distance between nodes is long, some pods have purple spots on spl p one side, good set.																			
347520	India	6	d	7	85	7	7	d	53	p	8	r	5.8	1.2	5	91	s-m	s&w	1 gn	0-2
	Some pods have purple spots on both sides, good set.																			
347521	India	8	t	7	110	10	7	m-d	53	p	7	r	6.5	1.5	7	91	s-m	w	1-m gn	0-2
	Half of plants missing, some pods have purple spots on one side, good vigor.																			
347522	India	6	d	7	80	12	7	m-d	53	p	6-7	r	6.0	1.2	5	88	s-m	w	1-m gn	1-3
	Some plants missing, variable plant size, some pods have purple spots on both sides.																			

Pea (con't.)

Pea (con't.)															Days		Ovules		Days		Seed		Virus
P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Nodes	Leaves	to	Flw.	Set	Dbl.	Lgth.	x	Wth.	Pod	Per	to	Harv.	Sz.	Surf.	Col.	
347524	India	6	t	7	100	16	7	m-d	53	p	6-7	r	6.0	1.0	6	88	88	s-m	s&w t, l-m gn	0-2			
	Variable plant size, some pods red spots on both sides.																						
347525	India	5-7	d	5-7	70	8	7	d	53	p	7	r	5.7	1.3	6	85	85	s-m	s&w t, l-m gn	0-4			
	Some sparsely foliated plants, variable plant size, some pods have red spots, some pods are yellow-green.																						
347526	India	6	d	7	82	11	6-7	d	53	p	7	r	5.5	1.1	7	85	85	m	s l gn, l gn	0			
	Some pods have red spots.																						
347527	India	5-6	t	7	110	11	6-7	d	53	p&w	5-7	r	6.0	1.3	7	91	91	m	s&w l-d gn, t	0-2			
	Variable plant size, some pods have red spots.																						
347528	India	6	d	8	40	7	8	d	53	w	8	f	9.1	1.9	8	91	91	l	w l-m gn	0			
	Variable plant size, quite leafy for small plants, large pods, plants similar to 'Wando'.																						
347529	India	6-7	t	7	90	11	7	m-d	53	p	7	r	5.2	1.0	7	85	85	m-l	w l-d gn	0-2			
	Some purple spots on pods.																						
347530	India	6	t	6	95	8	7	m	55	w	5-6	f	6.5	1.2	7	97	97	s-m	s l-m gn	0			
	Variable plant size, some plants missing, some set 6/25.																						
347531	India	5-6	t	5-6	105	11	6	m	53	p	5	r	5.1	1.0	6	97	97	s-m	s l-m gn	0-2			
	Some sparsely foliated, some plants missing, some pods have red spots.																						
G-20048	India	7	d	7	90	17	7	m	60	w	7	f	7.0	1.5	6	97	97	m-l	s l t, l-d gn	0			
	Some set 6/25.																						
G-20049	India	7	d	7	80	13	7	m	55	w	7-8	f	7.7	1.5	7	97	97	s-m	s t, l-m gn	0-3			
	Some set 6/25.																						
G-20050	India	6	t	7	105	6	7	m	55	w	7	f	8.5	1.5	9	97	97	s-m	s t, l gn	0			
	Some set 6/25, some plants missing, large pods.																						
G-20051	India	6	t	7	115	10	7	m	55	w	7	f	9.0	1.5	9	103	103	m-l	w t & gn	0			
	Some set 6/25, large pods with tough skins, large ovules.																						
G-20052	India	6-7	d	8	70	10	8	m	53	w	7-8	r	8.2	2.0	9	88	88	l	w l-d gn, t	0			
	Large pods, good set, good vigor.																						
G-20054	India	7	t	7	105	13	7	m	55	w&p	7	f	7.4	1.4	6	97	97	s-m	s t & l gn	0			
	Few purple flowers, some plants missing, some set 6/25.																						
G-20055	India	7	t	7	95	12	8	m	53	p	7	r	6.5	1.2	7	97	97	m	w m gn, l gn	0-2			
	Some purple spots on pods, still many flowers.																						
G-20059	India	6	d	5-6	60	6	6-7	m-d	53	p	7	r	4.2	0.8	6	84	84	m	s l gn spl	3			
	Small plants, stems & leaves, good set, small pods.																						
G-20060	India	5	d	5	75	10	5-6	m	53	p	6-7	r	5.0	0.9	6	84	84	s-m	s d gn spl	0-2			
	Some plants missing, small leaves, small pods.																						

Pea (cont.)	P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Days			Plt. Nodes	Leaves No.	Col. to Flw.	Pod Size Lgth.x Wth.	Ovules Days			Virus		
							Per	to	Pod					Marv.	Sz.	Surf.		Col.	
G-12990	N.Y.	5	d	4-6	65	6	4-6	1	42	w	6-7	r	7.5	1.9	7		0-2		
		'Thomas Laxton 60', Variable plant size, good set, not very vigorous for standard, distance between internodes great, but consistent.																	
G-19079	N.Y.	8	d	7	45	7	7	d	50	w	8	f	7.0	1.5	7	m	w	gn	0-1
		'Little Marvel', Good set, green pods 6/1, some plants missing, large pods.																	
G-19710	N.Y.	6-7	d	7-8	45	9	7	d	53	w	8	f	8.2	1.5	7				0
		Very good set, very large, thick skinned pods, not very vigorous or leafy for standard. 'Wando'.																	
G-19711	N.Y.	8	d	8	58	8	8	d	55	w	8	r	7.0	1.6	8				0-1
		'Perfected Freezer 60', quite vigorous, good set.																	
G-19712	N.Y.	9	d	9	45	8	8	d	39	w	8	f	7.5	1.5	8				0
		'Sparkle', quite vigorous, green pods 6/15, very plump pods, pods are quite heavy, large ovules.																	
G-19713	N.Y.	7	t	7	90	9	8	d	55	w	6	r	9.5	2.4	9				3
		Quite leafy, bushy, not much set for standard. 'Alderman'.																	
Dark		6	d	7	60	10	7	d	55	w	7	f	8.5	2.0	8				0
		Seed Perfection', variable plant size for a standard cultivar.																	
	N.Y.	6	d	7	45	11	7	d	55	w	7	f	8.6	1.7	9				0
		Good vigor, 'Lincoln'.																	

PISUM SATIVUM subsp. arvense
 PISUM SATIVUM subsp. elatius
 PISUM SATIVUM subsp. hortense
 PISUM SATIVUM subsp. syriacum

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in field 4/16, 128 seeds/accession. Spacing 4' x 1 1/2" + 4'.
 Fertilizer 640 lb. 10-20-20/A. Notes taken 6/23-25/70.

Col. 3	Uniformity	9=most	5=medium	1=very variable
Col. 4	Habit	t=tall	d=dwarf	
Col. 5	Vigor	9=very	5=medium	1=poor
Col. 6	Plant height in centimeters.			
Col. 7	Nodes - number between base and first flower.			
Col. 8	Number of leaves.			
Col. 9	Color of leaves. d=dark		m=medium	1=light
Col. 10	Days to Bloom - number of days to first bloom.			
Col. 11	Flower Color	w=white	p=purple	
Col. 12	Set of seeds	9=excellent	5=medium	1=few or poor
Col. 13	Doubling	f=frequent	r=rare	
Col. 14	& 15 Pod size in centimeters			
Col. 16	Ovules Per Pod - number of seeds per pod.			
Col. 17	Days to Harvest - number of days to harvest of ripe pods.		m=medium	1=large
Col. 18	Seed size	s=small	w=wrinkled	
Col. 19	Seed Surface	s=smooth	p=purple	t=tan
Col. 20	Seed Color	gn=green	l=light	m=medium
		b=brown	spl=splash	
		d=dark	5=medium	0=least
Col. 21	Virus general	9=most		

P.I.No.	Orig.	Unif.	Hab.	Vig.	Plt. Ht.	Days		Nodes	Leaves No.Col.	to Flw. Blm.	Col.	Set Dbl.	Pod Size		Ovules Days		Virus			
						Leaves	to						Lgth.x	Wth.	Per	to				
																		Pod	Harv.	Sz.
343971	Tur.	7	d	7	55	8	7	1-m	53	p	7	r	5.0	1.0	7	82	s-m	s	gn spl p	5
	P. sat.	subsp.	arvense.			Very small plants with small leaves & pods, quite vigorous & leafy, stucco pods -- some.														
343972	Tur.	3	d	3-6	65	15	3-5	m	70	p	2	r	8.5	1.0	10	98	s	s	d gn spl b	0-2
	P. sat.	subsp.	elatius.			Some plants missing, variable plant size, very small internodes, still flowers 7/7/70.														
343973	Tur.	5	d	3-5	80	13	4	m	70	p	1	r	7.2	.9	9	98	s	s	d gn spl b	0-3
	Four--five plants in row, poor vigor.																			
343974	Tur.	3	d	2-4	40		2-4	m												3
	No bloom 6/25; 6 plants - poor vigor, no bloom 7-7, all plants dead 7/21. P. sat. subsp. elatius.																			
343975	Tur.	3	d	2-5	55		3-5	m	81											0-2
	P. sat.	subsp.	elatius.			Variable plant size, no bloom 6/25, poor vigor, sparsely foliated, few plants, no pods 7/21, plants dying.														
343976	Tur.	6	d	5	65	10	4-5	d	70	p	3	r	7.9	1.1	9	98	s-m	s	d gn spl b	0
	Some plants missing, sparsely foliated, many flowers 7/7/70. P. sat. subsp. elatius.																			
343977	Tur.	2	d	2-4	50	15	2-4	l	76	p	1	r	4.5	0.7	6					0
	P. sat.	subsp.	elatius.			7 plants, 2 extremely small plants, no bloom, poor vigor, sparsely foliated, no set 7/7, 3 pods 7/21, no seeds.														
343978	Tur.	5	d	4-5	85	16	4-5	m	70	p	1	f	6.6	0.9	9	102	s	s	d gn & b	2-6
	P. sat.	subsp.	elatius.			Not too vigorous, few plants missing, still flowering 7/7, few pods set 7/7, very little set 7/21.														
343979	Tur.	4	d	4-5	55	8	3-4	m	60	p, w	3-4	r	6.0	1.0	8	91	s	s	gy gn, b,	0-5
	P. sat.	subsp.	elatius.			Most plants sparsely foliated, few plants with white flowers, some pods, good set for poor vigor plants, stucco pods.														
344005	Grc.	6	d	4-6	75	13	5	m	60	p	4	r	8.5	1.1	8	91	s	s	gn spl b	0-7
	P. sat.	subsp.	elatius.			Some plants missing, little set 6/25, stucco pods, long slender pods.														
344007	Grc.	3	d2	2-4	55	7	3-4	m	62	p	1-2	r	8.2	1.0	8	88	s-m	s	b, gn spl b	4
	P. sat.	subsp.	elatius.			Poor vigor, few plants in row, one plant dying, sparsely foliated, variable plant size, stucco pods.														
344008	Grc.	6	d	4-5	60	7	4-5	m	62	p	1	r	7.8	1.0	10	98	s	s	d gn spl	5
	P. sat.	subsp.	elatius.			Several plants missing. little set 6/25, poor vigor, sparsely foliated, blk, dk b														
344010	Grc.	5	d	4-6	75	12	4-6	m	60	p	5	f	9.1	1.0	10	88	s-m	s	d gn spl	0-4
	P. sat.	subsp.	elatius.			Some plants missing, poor vigor, but better than previous rows, some b, spl p set 6/25, stucco pods.														
344011	Grc.	4	d	3-5	65	10	3-4	m	62	p	2-3	r	8.0	1.0	9	98	s	s	d gn spl	0-6
	P. sat.	subsp.	elatius.			Some plants missing, variable plant size, sparsely foliated, poor vigor, stucco pods.														

P.I.No.	Orig.	Unif.	Hab.	Vig.	Ht.	Plt.	Days		Leaves to	Flw.	Pod Size		Per to	Seed		Virus		
							Modes	No.Col.			Blm.	Col.		Set	Dbl.		Lgth.x Wth.	Pod
344012	Grc.	5	d	4-5	85.5	10	3-5 m	60	p	3-4	4	8.0	.9	10	88	m-1 w 1-d gn	0-3	
	P. sat.	subsp.	elatus.	Some plants missing, sparsely foliated, poor vigor, purple spots on one side, stucco pods.														
344013	Grc.	6	d	4-5	70	11	3-5 m	60	p	3	r	8.3	.9	10	88	s x gn spl b	0-4	
	P. sat.	subsp.	elatus.	Some set 6/25, purple splashes on pods, stucco pods, long and slender. spl p														
343980	Tur.	7	d	8	41	10	8	53	w	8	f	6.0	1.6	6	88	1 s 1 & d gn	0	
	P. sat.	subsp.	hortense.	Very vigorous & leafy, very short plants, good set.														
343981	Tur.	7	d	8	45	8	8	53	w	8	f	5.6	1.7	6	84	1 s 1 gn	0	
	P. sat.	subsp.	hortense.	Vigorous & leafy, good set, very similar to row 323, P.I. 343980.														
343982	Tur.	6	t	6-8	115	15	5-8 m	55	p	6-7	r	6.7	1.4	7	98	m-1 s&w 1-m gn	0	
	P. sat.	subsp.	hortense.	Little set 6/25.														
343983	Tur.	6	t	6-7	100	11	7-8 m	56	w	7	r	7.5	1.7	7	98	1 s t, m gn	0-2	
	P. sat.	subsp.	hortense.	Leafy, some stucco pods.														
343984	Tur.	7	d	7	85	12	7 m	60	p	7	f	8.2	1.5	8	102	m-1 s gn spl p	0	
	P. sat.	subsp.	hortense.	Some purple on vines, fairly uniform, some set 6/25.														
343985	Tur.	5	d	5-7	80	14	4-7 m	60	p	5-6	f	9.0	1.6	7	102	m-1 w gn spl p	0-3	
	P. sat.	subsp.	hortense.	Part of row missing, some purple streaks on vines, some set 6/25.														
343986	Tur.	6	t	5-7	93	10	608 m	61	w&p	6	f	8.2	1.4	7	102	s-m s t, gy gn	0-2	
	P. sat.	subsp.	hortense.	Few purple flowers, little set 6/25; variable plant size.														
343987	Tur.	6	d	8	90	9	8	53	w	8	f	8.0	1.7	8	95	1 s t & lt gn	0-2	
	Small leaves, good set, P. sat. subsp. hortense.																	
343988	Tur.	7-8	d	8	90	18	8 m	60	p	6	r	7.2	1.9	8	102	s-m s t, t spl	0-1	
	P. sat.	subsp.	hortense.	Very vigorous & leafy, little set 6/25, very large, wide-spreading plants. p, b, 1 gn														
343989	Tur.	6	d	7	80	16	7 m	66	w	3	f	6.3	1.2	7	103	s-m s d gn spl p	0-3	
	P. sat.	subsp.	hortense.	Some plants missing, thick vines, large leaves, little set 6/25, some stucco pods, little set 7/7/70.														
343990	Tur.	7	t	7	100	15	7-8 m	55	w, p	6-7	r	8.3	2.0	8	95	m s 1-m t,	0-4	
	P. sat.	subsp.	hortense.	Few purple flowers, fairly leafy, little set 6/25, one very small														
	sickly-looking plant, broad pods.																	
343991	Tur.	6	d	6	50	8	7	d	53	p	6	r	5.7	1.2	7	83	s-m s d gn, gn spl 6	p
	P. sat.	subsp.	hortense.	Some plants turning brown, small leaves, some purple pods, some stucco, some plants missing, scraggly, sparsely foliated.														

PISUM SATIVUM

Greenhouse (second planting)

1970 Descriptions and Evaluations

Seeds scarified and treated with Arasan 75. 13 seeds/accession. 5th pots, planted 8/13 & 14/70.
Notes taken 10/16/70.

Col. 3	Uniformity	9=most	5=medium	1=very variable
Col. 4	Habit	t=tall	dw=dwarf	i=intermediate
Col. 5	Vigor	9=very	5=medium	l=poor
Col. 6	Plant height in centimeters			
Col. 7	Nodes - number between base and first flower.			
Col. 8	Number of leaves			
Col. 9	Color of leaves	dk=dark	md=medium	
Col. 10	Days to Bloom - number of days to first bloom.			
Col. 11	Flower Color	w=white	l=light	pr=purple
Col. 12	Set of seeds	9=excellent	5=medium	l=few or poor
Col. 13	Doubling	f=frequent	r=rare	
Col. 14	& 15 Pod size in centimeters			
Col. 16	Ovules Per Pod - number of seeds per pod			
Col. 17	Days to harvest - number of days to harvest of ripe pods.			
Col. 18	Seed Size	s=small	m=medium	
Col. 19	Seed Surface	sm=smooth	wr=wrinkled	
Col. 20	Seed Color	l=light	gn=green	t=tan
Col. 21	Virus general	9=most	5=medium	br=brown 0=least sp=speckled

TREES, SHRUBS, FRUITS and ORNAMENTALS

1970 Descriptions and Evaluations

Kindly submit requests before April 10, 1971.

Col.	3	Uniformity:	9=very	5=medium	1=poor
Col.	4	Habit:	9=erect	5=medium	1=prostrate
Col.	5	Vigor:	9=very	5=moderate	1=poor
Col.	6	Plant height and width in centimeters.			
Col.	7	Number of branches.			
Col.	8	Bark color: br=brown	r=red	gn=green	m=medium t=tan
Col.	9	Number of leaves:	9=many	l=light	l=few
Col.	10	Length and width of leaf in centimeters.		5=medium	
Col.	11	Leaf surface:	sm=smooth		
Col.	12	Leaf margin:	s=serate	e=entire	d=denture
Col.	13	Leaf color:	gn=green	r=red	m=medium
Col.	14	Date 50% of plants in row in full bloom.			l=light
Col.	15	Flower diameter in centimeters.			
Col.	16	Flower color:	wh=white	y=yellow	l=light
Col.	17	Amount of bloom:	9=much	5=moderate	l=little
Col.	18	Fruit depth and diameter in centimeters.			
Col.	19	Fruit shape:	o=oval	h=heart	pl=plump
Col.	20	Fruit color:	r=red	m=medium	d=dark
Col.	21	Date fruit ripe.			
Col.	22	Winter hardiness)			
Col.	23	Spring recovery)	9=excellent	5=medium	l=poor

P.I.NO.	Orig.	Unif.	Hab.	Vig.	Ht.	xWth.	Br.	Color	Plant	No.	Bark	Leaf	No.	Lgth.	Wth.	Surf.	Marg.	Col.	Blm.	Diam	Col.	Flower	Amt.	Fruit	Depth	Diam	Shape	Col.	Ripe	WH	SR
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SHRUBS

67-45	N.Y.	6	3-5	5	16	30	5	gn&t	6	2.0	1.2	sm	e	m	gn																6	5
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4th. level, right. Roberts

G-18343	N.Y.	8	3-6	8	75	115	6	gn&r	9	6.3	6.0	sm	d	mgn	6/16	.2																9	9
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Polygonum cuspidatum compactum
Quite vigorous and leafy.

TREES

325156	Md.	7	8	7	90	20	1	m	br	3	6.5	2.5	sm	s	m	gn																	9	9
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Malus sieboldii
Grafted on McIntosh seedlings 'Fuji'. No flowers or fruit 6/16/70.

